GenCore version 5.1.6

OM nucleic - nucleic search, using sw model

Run on: July 10, 2004, 07:02:02 ; Search time 147 Seconds
(without alignments)
7614.530 Million cell updates/sec

Title: US-09-813-492-1
Perfect score: 2017
Sequence: 1 tagataccctgaacacctcc.....ataccaaaaaaaaaaaaaaa 2017

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 682709 seqs, 277475446 residues

Total number of hits satisfying chosen parameters: 1365418

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued_Patents_NA:*
1: /cgn2_6/ptodata/2/ina/5A_COMB.seq:*
2: /cgn2_6/ptodata/2/ina/5B_COMB.seq:*
3: /cgn2_6/ptodata/2/ina/6A_COMB.seq:*
4: /cgn2_6/ptodata/2/ina/6B_COMB.seq:*
5: /cgn2_6/ptodata/2/ina/PCTUS_COMB.seq:*
6: /cgn2_6/ptodata/2/ina/backfiles1.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

	Result No.	Score	% Query Match	Length	DB	ID	Description
	1	1035.2	51.3	3117	4	US-09-146-580-6	Sequence 6, Appli
	2	475.6	23.6	484	4	US-09-621-976-1513	Sequence 1513, Ap
	3	379	18.8	381	4	US-09-146-580-7	Sequence 7, Appli
c	4	302	15.0	311	4	US-09-146-580-11	Sequence 11, Appl
c	5	230	11.4	35060	3	US-08-814-095-7	Sequence 7, Appli
	6	224	11.1	42571	4	US-09-810-347-3	Sequence 3, Appli
c	7	223.6	11.1	392000	4	US-10-027-983-11	Sequence 11, Appl
	8	220.4	10.9	18853	4	US-09-820-005-3	Sequence 3, Appli
c	9	220.2	10.9	685	4	US-09-183-266A-16	Sequence 16, Appl
c	10	220.2	10.9	1332	4	US-09-584-568C-1	Sequence 1, Appli
	11	219.2	10.9	55298	4	US-09-491-356C-1	Sequence 1, Appli
	12	218.6	10.8	4108	4	US-09-883-096-1	Sequence 1, Appli
	13	218.2	10.8	2839	3	US-09-061-702-1	Sequence 1, Appli
c	14	217.4	10.8	98844	4	US-09-791-211-10	Sequence 10, Appl
	15	217	10.8	8453	3	US-09-167-681-45	Sequence 45, Appl
c	16	216.8	10.7	118067	4	US-09-497-855A-32	Sequence 32, Appl
	17	216.4	10.7	631	3	US-09-385-982-354	Sequence 354, App
c	18	216.4	10.7	1426	4	US-09-620-312D-967	Sequence 967, App
c	19	216.4	10.7	319608	4	US-09-539-333D-1	Sequence 1, Appli
c	20	216.4	10.7	319608	4	US-09-679-409-1	Sequence 1, Appli
	21	214.8	10.6	74962	4	US-09-685-853A-3	Sequence 3, Appli
	22	214.6	10.6	21784	4	US-09-820-002-3	Sequence 3, Appli
	23	214.4	10.6	6218	4	US-09-023-655-1203	Sequence 1203, Ap
c	24	214.4	10.6	21968	4	US-09-851-985-3	Sequence 3, Appli
	25	214.4	10.6	63000	4	US-09-780-172-18	Sequence 18, Appl
	26	213.6	10.6	128779	4	US-09-497-855A-38	Sequence 38, Appl
	27	213.2	10.6	1701	3	US-09-078-294-9	Sequence 9, Appli
c	28	213.2	10.6	20966	4	US-09-984-880-3	Sequence 3, Appli
c	29	213.2	10.6	20966	4	US-10-277-032-3	Sequence 3, Appli
	30	213.2	10.6	48763	4	US-09-916-204-3	Sequence 3, Appli
	31	213.2	10.6	174493	4	US-09-804-471A-3	Sequence 3, Appli
	32	213.2	10.6	174493	4	US-10-238-709-3	Sequence 3, Appli
c	33	212.8	10.6	87350	3	US-08-781-891-79	Sequence 79, Appl
c	34	212.8	10.6	87350	4	US-09-618-166-79	Sequence 79, Appl
c	35	212.8	10.6	87543	4	US-09-791-211-3	Sequence 3, Appli
	36	212.6	10.5	461	4	US-09-404-879A-1	Sequence 1, Appli
	37	212.6	10.5	461	4	US-09-404-879A-3	Sequence 3, Appli
	38	212.6	10.5	461	4	US-09-338-933-1	Sequence 1, Appli
	39	212.6	10.5	461	4	US-09-338-933-3	Sequence 3, Appli
	40	212.6	10.5	461	4	US-09-215-681-1	Sequence 1, Appli
	41	212.6	10.5	461	4	US-09-215-681-3	Sequence 3, Appli
	42	212.6	10.5	461	4	US-09-216-003A-1	Sequence 1, Appli
	43	212.6	10.5	461	4	US-09-216-003A-3	Sequence 3, Appli
	44	212.6	10.5	32042	4	US-09-245-281-44	Sequence 44, Appl
	45	212.6	10.5	32042	4	US-09-340-620A-63	Sequence 63, Appl

ALIGNMENTS

RESULT 1
US-09-146-580-6
; Sequence 6, Application US/09146580A
; Patent No. 6306653
; GENERAL INFORMATION:
; APPLICANT: Papsidero, Lawrence D
; APPLICANT: Dyster, Lyn M
; APPLICANT: Frustaci, Jana M
; TITLE OF INVENTION: DETECTION AND TREATMENT OF BREAST DISEASE
; FILE REFERENCE: 200755/1002
; CURRENT APPLICATION NUMBER: US/09/146,580A
; CURRENT FILING DATE: 1998-09-03
; EARLIER APPLICATION NUMBER: 60/071,889
; EARLIER FILING DATE: 1998-01-20
; EARLIER APPLICATION NUMBER: 60/092,155
; EARLIER FILING DATE: 1998-07-09
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 6
; LENGTH: 3117
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (35)
; OTHER INFORMATION: N at any position in this sequence is A, C, G, or
; OTHER INFORMATION: T
US-09-146-580-6

Query Match 51.3%; Score 1035.2; DB 4; Length 3117;
Best Local Similarity 86.5%; Pred. No. 1.2e-228;
Matches 1172; Conservative 73; Mismatches 92; Indels 18; Gaps 15;

```
Qy        671 GGTATGCAAATGTAGCCAATAATATACTCAAACTCCTGGGCTCAAGCGATCCTCCCACCT 730
              ||| |    |||| ||| |   |  ||||||||||||||||||||||||||||||||||||
Db       1669 GGTCTCACTATGTTGCCCAGGTTGATCTCAAACTCCTGGGCTCAAGCGATCCTCCCACCT 1728

Qy        731 TAGCCTCCCAAAGTACTGGGATTATAGGTGTGAGCCACAGTGCCTGGCCTAATTATTTTC 790
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1729 TAGCCTCCCAAAGTACTGGGATTATAGGTGTGAGCCACAGTGCCTGGCCTAATTATTTTC 1788

Qy        791 TTGTGATCAAATTCAGGTTTAATGTTTTTGGTTAAGAATTTCCTACGTGAATTCGTGTAC 850
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1789 TTGTGATCAAATTCAGGTTTAATGTTTTTGGTTAAGAATTTCCTACGTGAATTCGTGTAC 1848

Qy        851 TTATTTTGTCATTTAGAGTTCATAAATATTAGGGTTTATTTTCTAAATAGAATAGTTTAA 910
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1849 TTATTTTGTCATTTAGAGTTCATAAATATTAGGGTTTATTTTCTAAATAGAATAGTTTAA 1908

Qy        911 ACTAAATATAACTTCAAAACGTCTAGTTTGAGTAGCTACCGTTGTTTGGATTGAAATTTT 970
```

```
Db       1909 ACTAAATATAACTTCAAAACGTCTAGTTTGAGTAGCTACCGTTGTTTGGATTGAAATTTT 1968

Qy        971 CTGATACTGAAAAGAACAAAAAGCCTGCCTTTCTGCCCAGAACCTTTTGCCTCCCCCAGT 1030

Db       1969 CTGATACTGAAAAGAACAAAAAGCCTGCCTTTCTGCCCANAACSNNTTGCYTCCCCCAGT 2028

Qy       1031 CAGTTCTTGGAGCAGCACTAGTTAGGGGCCCAGAGTTCGGCCTTCTGTGTGGTGATTTTA 1090

Db       2029 NAGTTCTTGGNGCAGNACTAGTTAGGGNCCCAGAGTTNGGCCTTNNGKGTGGTGATTTTA 2088

Qy       1091 CGCTCTGCCTAAACAAGGAGCCTACATCTTTTAGCTCCTATTCCACCCTTCTCACACGTT 1150

Db       2089 NGYTCTGCCTAAACAAGGNGCNWACATYTTTTAGCTCCTATTCCACCYTTCTNAMAMGTT 2148

Qy       1151 TTTGTTGTTGTTTGGTTGTTTTTTTTTGAGACAGAGTCTCACTCTG-TTGCCCAGGCTGG 1209

Db       2149 TTTGTTGTKGTTTGNTTG-TTTTTTTKGAGACAGRRTNTNAYTCTGTTTGCCCARGCTGG 2207

Qy       1210 AG-TGCAGTGGCACAATCTCGGCT-CATTGCAACCTCCGCCTCCCG--CGTTCAAGTGAT 1265

Db       2208 ARTTGCAGTGGCACAATYTNGGYTNCATTGCAACYTCNGCYTCCSSGCCGTTCAAKTGAT 2267

Qy       1266 TCTCTTGCCTCAGCCT-CCCAAGTAACTGATATTACAGGCGCCCAGCCACCACACCCCGC 1324

Db       2268 YYTCTTGCYTCAGCYTCCCCAAGTAANTGATATTACAGGNGCCCAGCCACCAMACCCCGN 2327

Qy       1325 TGATTTTTGTATTTTTAGTAGAGACGGGGTTTTCCCACGTTGGCCGGGCTGGTCTCAAAC 1384

Db       2328 TGAWTTTTGTATTTTTARTARARAMRGGGTTTTCCCGCNTTGGCNGGGCTGGTCTCNAAN 2387

Qy       1385 T-CTTGACCTCAAGTGAACCACCCGCCTGTGCCTCCCAAAGTGCTGGAATTACCAGCG-T 1442

Db       2388 TCCTTGAMCTCNAKTGAACCACCCGCCTGTGCCYCCCAAANTGCTGGAATTACCANCGTT 2447

Qy       1443 GAGCCACCATGCCGGGCTCACACGTTTGAG-TTGATACCATTGTGCCATTCCTCTTTTGG 1501

Db       2448 GANCCACCATGCCGGGCYCACACGTTTGARTTTGANACCATTGTNCCATTCCTCTTTTGG 2507

Qy       1502 CCTCTTTTTTGTCCATAGAGGCTTCAAGATAGATAGGTAAGAGCCCAGTAGT-GTTCATA 1560

Db       2508 CCTYTTTTTTNTCCATAGNNGCTTCAAGATAGATANGTAAGRGCCCAGTAGTNGTTCWTA 2567

Qy       1561 AGAAGCCAATAGAGAGCAGGAGCCACTTTA--TCAGGTGGCAGGTGTCCCGGGCCTCCCT 1618

Db       2568 RGAAGCNMATAGRRANCRGGARCCANTTTNATCAGGTGGGCAGGTGTCCNNGGCYTCCCT 2627

Qy       1619 GCTGGCTAGTCCCAAGCGGTGGTGTTGCCAGGATGTCTTGGAGGTGATAATGGGACACAC 1678

Db       2628 GCTGGYTNNTCCCAAGCGGTGGTGTTGCCARGANKTNTTGGARGTGATAATGGGANANAC 2687

Qy       1679 --AGAGGCACTGAGTCTCCATAGGTTAAAATGCCACCAAAACTGGCCTTT-GCCTAATAT 1735

Db       2688 CAGNAGGCMCTGAGTYNCNNTAGGTTNAAATGCCACCAAAACTGGCCTTTGGCCTAATAT 2747

Qy       1736 CCCTCATTGACTATTTAGCATTTAATTTATTTATTTTCCTGACATTTCTGCAAG-CTTTG 1794

Db       2748 CCYYCNTTGAMTANTTARCATTTAWTTTATTWATTTNCCTGACATTTNTGCMANCCTTTG 2807

Qy       1795 TATTTATATTTCCACTTTATAGATGAGGAAATTTGAGGCTCTTAGAGGTAAAATGACTTG 1854

Db       2808 TWTTTNTATTTCCNCTNTATARAWGARGAAATTTGAGGNTYTTARAGGTAAAATGANTTG 2867

Qy       1855 CCCAGGT-CACACAGGAAGTGGCAGAGACAAGCTTTTTAAATAAGAAAAAATTAATAAAA 1913

Db       2868 CNCNRGTNNACMCAGGAAGTGGCNRARANAANCTTTTTANATNMGAAAAAATTAATAAAA 2927

Qy       1914 TATAATATGAGAGTAACTTAAAATATTAATAAACCACAATTTTAAATTAATTAACCGTGA 1973

Db       2928 TATAATATGAGAGTAACTTAAAATATTAATAAACCACAATTTTAAATTAATTAACCGTGA 2987

Qy       1974 TAACCAACATTAATAAAAGTTAAGATACCAAAAAA 2008
```

```
Db       2988 TAACCAACATTAATAAAAGTTAAGATACCAAAACA 3022
```

RESULT 2
US-09-621-976-1513
; Sequence 1513, Application US/09621976
; Patent No. 6639063
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Jobert, S.
; APPLICANT: Giordano, J.Y.
; TITLE OF INVENTION: ESTs and Encoded Human Proteins.
; FILE REFERENCE: GENSET.054PR2
; CURRENT APPLICATION NUMBER: US/09/621,976
; CURRENT FILING DATE: 2000-07-21
; NUMBER OF SEQ ID NOS: 19335
; SOFTWARE: Patent.pm
; SEQ ID NO 1513
; LENGTH: 484
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 77..457
; NAME/KEY: sig_peptide
; LOCATION: 77..133
; OTHER INFORMATION: Von Heijne matrix
; OTHER INFORMATION: score 6.80000019073486
; OTHER INFORMATION: seq AIVALAVCAALHA/SE
US-09-621-976-1513

Query Match 23.6%; Score 475.6; DB 4; Length 484;
Best Local Similarity 99.8%; Pred. No. 2.8e-100;
Matches 475; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

```
Qy         70 AAGGACACCTTTAGCCTCATTTCCTGATCGAACAGCCTCACTTGTGTTGCTGTCAGTGCC 129

Db          1 AAGGACACCTTTAGCCTCATTTCCTGATCGAACAGCCTCACTTGTGTTGCTGTCAGTGCC 60

Qy        130 AGTAGGGCAGGCAGGAATGCAGCAGAGAGGACTCGCCATCGTGGCCTTGGCTGTCTGTGC 189

Db         61 AGTAGGGCAGGCAGGAATGCAGCAGAGAGGACTCGCCATCGTGGCCTTGGCTGTCTGTGC 120

Qy        190 GGCCCTACATGCCTCAGAAGCCATACTTCCCATTGCCTCCAGCTGTTGCACGGAGGTTTC 249

Db        121 GGCCCTACATGCCTCAGAAGCCATACTTCCCATTGCCTCCAGCTGTTGCACGGAGGTTTC 180

Qy        250 ACATCATATTTCCAGAAGGCTCCTGGAAAGAGTGAATATGTGTCGCATCCAGAGAGCTGA 309

Db        181 ACATCATATTTCCAGAAGGCTCCTGGAAAGAGTGAATATGTGTCGCATCCAGAGAGCTGA 240

Qy        310 TGGGGATTGTGACTTGGCTGCTGTCATCCTTCATGTCAAGCGCAGAAGAATCTGTGTCAG 369

Db        241 TGGGGATTGTGACTTGGCTGCTGTCATCCTTCATGTCAAGCGCAGAAGAATCTGTGTCAG 300

Qy        370 CCCGCACAACCATACTGTTAAGCAGTGGATGAAAGTGCAAGCTGCCAAGAAAAATGGTAA 429

Db        301 CCCGCACAACCATACTGTTAAGCAGTGGATGAAAGTGCAAGCTGCCAAKAAAAATGGTAA 360

Qy        430 AGGAAATGTTTGCCACAGGAAGAAACACCATGGCAAGAGGAACAGTAACAGGGCACATCA 489

Db        361 AGGAAATGTTTGCCACAGGAAGAAACACCATGGCAAGAGGAACAGTAACAGGGCACATCA 420

Qy        490 GGGGAAACACGAAACATACGGCCATAAAACTCCTTATTAGAGAGTCTACAGATAAA 545

Db        421 GGGGAAACACGAAACATACGGCCATAAAACTCCTTATTAGAGAGTCTACAGATAAA 476
```

RESULT 3
US-09-146-580-7
; Sequence 7, Application US/09146580A
; Patent No. 6306653
; GENERAL INFORMATION:

```
;  APPLICANT: Papsidero, Lawrence D
;  APPLICANT: Dyster, Lyn M
;  APPLICANT: Frustaci, Jana M
;  TITLE OF INVENTION: DETECTION AND TREATMENT OF BREAST DISEASE
;  FILE REFERENCE: 200755/1002
;  CURRENT APPLICATION NUMBER: US/09/146,580A
;  CURRENT FILING DATE: 1998-09-03
;  EARLIER APPLICATION NUMBER: 60/071,889
;  EARLIER FILING DATE: 1998-01-20
;  EARLIER APPLICATION NUMBER: 60/092,155
;  EARLIER FILING DATE: 1998-07-09
;  NUMBER OF SEQ ID NOS: 18
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 7
;   LENGTH: 381
;   TYPE: DNA
;   ORGANISM: Homo sapiens
;   FEATURE:
;   NAME/KEY: unsure
;   LOCATION: (207)
;   OTHER INFORMATION: N at position 207 is either A, C, G, or T
;   FEATURE:
;   NAME/KEY: unsure
;   LOCATION: (272)
;   OTHER INFORMATION: N at position 272 is either A, C, G, or T
US-09-146-580-7

  Query Match             18.8%;  Score 379;  DB 4;  Length 381;
  Best Local Similarity   99.5%;  Pred. No. 4.2e-78;
  Matches  379;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy        147 TGCAGCAGAGAGGACTCGCCATCGTGGCCTTGGCTGTCTGTGCGGCCCTACATGCCTCAG 206
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 TGCAGCAGAGAGGACTCGCCATCGTGGCCTTGGCTGTCTGTGCGGCCCTACATGCCTCAG 60

Qy        207 AAGCCATACTTCCCATTGCCTCCAGCTGTTGCACGGAGGTTTCACATCATATTTCCAGAA 266
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 AAGCCATACTTCCCATTGCCTCCAGCTGTTGCACGGAGGTTTCACATCATATTTCCAGAA 120

Qy        267 GGCTCCTGGAAAGAGTGAATATGTGTCGCATCCAGAGAGCTGATGGGGATTGTGACTTGG 326
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        121 GGCTCCTGGAAAGAGTGAATATGTGTCGCATCCAGAGAGCTGATGGGGATTGTGACTTGG 180

Qy        327 CTGCTGTCATCCTTCATGTCAAGCGCAGAAGAATCTGTGTCAGCCCGCACAACCATACTG 386
              |||||||||||||||||||||||||| |||||||||||||||||||||||||||||||||||
Db        181 CTGCTGTCATCCTTCATGTCAAGCGCNGAAGAATCTGTGTCAGCCCGCACAACCATACTG 240

Qy        387 TTAAGCAGTGGATGAAAGTGCAAGCTGCCAAGAAAAATGGTAAAGGAAATGTTTGCCACA 446
              |||||||||||||||||||||||||||| |||||||||||||||||||||||||||||||||
Db        241 TTAAGCAGTGGATGAAAGTGCAAGCTGCCAANAAAAATGGTAAAGGAAATGTTTGCCACA 300

Qy        447 GGAAGAAACACCATGGCAAGAGGAACAGTAACAGGGCACATCAGGGGAAACACGAAACAT 506
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        301 GGAAGAAACACCATGGCAAGAGGAACAGTAACAGGGCACATCAGGGGAAACACGAAACAT 360

Qy        507 ACGGCCATAAAACTCCTTATT 527
              |||||||||||||||||||||
Db        361 ACGGCCATAAAACTCCTTATT 381


RESULT 4
US-09-146-580-11/c
; Sequence 11, Application US/09146580A
; Patent No. 6306653
; GENERAL INFORMATION:
;  APPLICANT: Papsidero, Lawrence D
;  APPLICANT: Dyster, Lyn M
;  APPLICANT: Frustaci, Jana M
;  TITLE OF INVENTION: DETECTION AND TREATMENT OF BREAST DISEASE
;  FILE REFERENCE: 200755/1002
;  CURRENT APPLICATION NUMBER: US/09/146,580A
;  CURRENT FILING DATE: 1998-09-03
;  EARLIER APPLICATION NUMBER: 60/071,889
;  EARLIER FILING DATE: 1998-01-20
;  EARLIER APPLICATION NUMBER: 60/092,155
;  EARLIER FILING DATE: 1998-07-09
;  NUMBER OF SEQ ID NOS: 18
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 11
;   LENGTH: 311
;   TYPE: DNA
;   ORGANISM: Homo sapiens
;   FEATURE:
;   NAME/KEY: unsure
;   LOCATION: (101)
;   OTHER INFORMATION: N at position 101 is either A, C, G, or T
;   FEATURE:
;   NAME/KEY: unsure
;   LOCATION: (162)
;   OTHER INFORMATION: N at position 162 is either A, C, G, or T
US-09-146-580-11

  Query Match             15.0%;  Score 302;  DB 4;  Length 311;
  Best Local Similarity   99.3%;  Pred. No. 2e-60;
  Matches  302;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy        208 AGCCATACTTCCCATTGCCTCCAGCTGTTGCACGGAGGTTTCACATCATATTTCCAGAAG 267
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        311 AGCCATACTTCCCATTGCCTCCAGCTGTTGCACGGAGGTTTCACATCATATTTCCAGAAG 252

Qy        268 GCTCCTGGAAAGAGTGAATATGTGTCGCATCCAGAGAGCTGATGGGGATTGTGACTTGGC 327
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        251 GCTCCTGGAAAGAGTGAATATGTGTCGCATCCAGAGAGCTGATGGGGATTGTGACTTGGC 192

Qy        328 TGCTGTCATCCTTCATGTCAAGCGCAGAAGAATCTGTGTCAGCCCGCACAACCATACTGT 387
              ||||||||||||||||||||||||||||||| |||||||||||||||||||||||||||||
Db        191 TGCTGTCATCCTTCATGTCAAGCGCAGAANAATCTGTGTCAGCCCGCACAACCATACTGT 132

Qy        388 TAAGCAGTGGATGAAAGTGCAAGCTGCCAAGAAAAAATGGTAAAGGAAATGTTTGCCACAG 447
              ||||||||||||||||||||||||||||| |||||||||||||||||||||||||||||||
Db        131 TAAGCAGTGGATGAAAGTGCAAGCTGCCAANAAAAAATGGTAAAGGAAATGTTTGCCACAG 72

Qy        448 GAAGAAACACCATGGCAAGAGGAACAGTAACAGGGCACATCAGGGGAAACACGAAACATA 507
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         71 GAAGAAACACCATGGCAAGAGGAACAGTAACAGGGCACATCAGGGGAAACACGAAACATA 12

Qy        508 CGGC 511
              ||||
Db         11 CGGC 8


RESULT 5
US-08-814-095-7/c
; Sequence 7, Application US/08814095
; Patent No. 6025183
;  GENERAL INFORMATION:
;    APPLICANT:  Soreq, Hermona
;    APPLICANT:  Zakut, Haim
;    APPLICANT:  Shani, Moshe
;    TITLE OF INVENTION:  TRANSGENIC ANIMAL ASSAY SYSTEM FOR
;    TITLE OF INVENTION:  ANTI-CHOLINESTERASE SUBSTNACES
;    NUMBER OF SEQUENCES:  7
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  KOHN & ASSOCIATES
;      STREET:  30500 No. 6025183thwestern Highway, Suite 410
;      CITY:  Farmington Hills
;      STATE:  Michigan
;      COUNTRY:  U.S.
;      ZIP:  48334
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/814,095
```

```
;       FILING DATE:
;       CLASSIFICATION:  800
;     ATTORNEY/AGENT INFORMATION:
;       NAME:  Montgomery, Ilene N.
;       REGISTRATION NUMBER:  38,972
;       REFERENCE/DOCKET NUMBER:  2391.00066
;     TELECOMMUNICATION INFORMATION:
;       TELEPHONE:  (248) 539-5050
;       TELEFAX:  (248) 539-5055
;  INFORMATION FOR SEQ ID NO:  7:
;     SEQUENCE CHARACTERISTICS:
;       LENGTH:  35060 base pairs
;       TYPE:  nucleic acid
;       STRANDEDNESS:  double
;       TOPOLOGY:  linear
;     MOLECULE TYPE:  other nucleic acid
;       DESCRIPTION:  /desc = "Cosmid including ACHE
;       DESCRIPTION:  promotor, ACHE gene and ARS gene"
;     HYPOTHETICAL:  NO
;     ANTI-SENSE:  NO
;     ORIGINAL SOURCE:
;       ORGANISM:  Homo sapiens
;     POSITION IN GENOME:
;       CHROMOSOME/SEGMENT:  7q22
;     FEATURE:
;       NAME/KEY:  promoter
;       LOCATION:  4089..22464
;       OTHER INFORMATION:  /function= "ACHE Promotor"
;       OTHER INFORMATION:  /standard_name= "ACHE Promotor"
;     FEATURE:
;       NAME/KEY:  exon
;       LOCATION:  22465..22537
;       OTHER INFORMATION:  /function= "non-translated"
;       OTHER INFORMATION:  /gene= "ACHE"
;       OTHER INFORMATION:  /number= 1
;     FEATURE:
;       NAME/KEY:  exon
;       LOCATION:  24090..25177
;       IDENTIFICATION METHOD:  experimental
;       OTHER INFORMATION:  /function= "(translation start:
;       OTHER INFORMATION:  24110)"
;       OTHER INFORMATION:  /evidence= EXPERIMENTAL
;       OTHER INFORMATION:  /gene= "ACHE"
;       OTHER INFORMATION:  /number= 2
;     FEATURE:
;       NAME/KEY:  exon
;       LOCATION:  25524..26009
;       IDENTIFICATION METHOD:  experimental
;       OTHER INFORMATION:  /evidence= EXPERIMENTAL
;       OTHER INFORMATION:  /gene= "ACHE"
;       OTHER INFORMATION:  /number= 3
;     FEATURE:
;       NAME/KEY:  exon
;       LOCATION:  27005..27274
;       IDENTIFICATION METHOD:  experimental
;       OTHER INFORMATION:  /evidence= EXPERIMENTAL
;       OTHER INFORMATION:  /gene= "ACHE"
;       OTHER INFORMATION:  /number= 4
;     FEATURE:
;       NAME/KEY:  exon
;       LOCATION:  27255..28007
;       IDENTIFICATION METHOD:  experimental
;       OTHER INFORMATION:  /evidence= EXPERIMENTAL
;       OTHER INFORMATION:  /gene= "ACHE"
;       OTHER INFORMATION:  /number= 5
;     FEATURE:
;       NAME/KEY:  terminator
;       LOCATION:  27385..27387
;     FEATURE:
;       NAME/KEY:  exon
;       LOCATION:  28008..28129
;       IDENTIFICATION METHOD:  experimental
;       OTHER INFORMATION:  /evidence= EXPERIMENTAL
;       OTHER INFORMATION:  /gene= "ACHE"
;       OTHER INFORMATION:  /number= 6
;     FEATURE:
;       NAME/KEY:  terminator
;       LOCATION:  28129..28131
;     FEATURE:
;       NAME/KEY:  exon
;       LOCATION:  complement (34528..34895)
;       OTHER INFORMATION:  /function= "arsenite resistance
;       OTHER INFORMATION:  gene"
;       OTHER INFORMATION:  /gene= "AR"
;       OTHER INFORMATION:  /number= 1
;     FEATURE:
;       NAME/KEY:  exon
;       LOCATION:  complement (34092..34358)
;       OTHER INFORMATION:  /gene= "AR"
;       OTHER INFORMATION:  /number= 2
;     FEATURE:
;       NAME/KEY:  exon
;       LOCATION:  complement (33779..33963)
;       OTHER INFORMATION:  /gene= "AR"
;       OTHER INFORMATION:  /number= 3
;     FEATURE:
;       NAME/KEY:  exon
;       LOCATION:  complement (33493..33591)
;       OTHER INFORMATION:  /gene= "AR"
;       OTHER INFORMATION:  /number= 4
;     FEATURE:
;       NAME/KEY:  exon
;       LOCATION:  complement (33297..33408)
;       OTHER INFORMATION:  /gene= "AR"
;       OTHER INFORMATION:  /number= 5
;     FEATURE:
;       NAME/KEY:  exon
;       LOCATION:  complement (32959..33094)
;       OTHER INFORMATION:  /gene= "AR"
;       OTHER INFORMATION:  /number= 6
;     FEATURE:
;       NAME/KEY:  exon
;       LOCATION:  complement (32569..32628)
;       OTHER INFORMATION:  /gene= "AR"
;       OTHER INFORMATION:  /number= 7
;     FEATURE:
;       NAME/KEY:  exon
;       LOCATION:  complement (32386..32468)
;       OTHER INFORMATION:  /gene= "AR"
;       OTHER INFORMATION:  /number= 8
;     FEATURE:
;       NAME/KEY:  exon
;       LOCATION:  complement (31894..32080)
;       OTHER INFORMATION:  /gene= "AR"
;       OTHER INFORMATION:  /number= 9
;     FEATURE:
;       NAME/KEY:  exon
;       LOCATION:  complement (31363..31534)
;       OTHER INFORMATION:  /gene= "AR"
;       OTHER INFORMATION:  /number= 10
;     FEATURE:
;       NAME/KEY:  exon
;       LOCATION:  complement (31131..31284)
;       OTHER INFORMATION:  /gene= "AR"
;       OTHER INFORMATION:  /number= 11
;     FEATURE:
;       NAME/KEY:  exon
;       LOCATION:  complement (30816..31011)
;       OTHER INFORMATION:  /gene= "AR"
;       OTHER INFORMATION:  /number= 12
;     FEATURE:
;       NAME/KEY:  exon
;       LOCATION:  complement (30470..30626)
;       OTHER INFORMATION:  /gene= "AR"
;       OTHER INFORMATION:  /number= 13
;     FEATURE:
```

```
;      NAME/KEY:  exon
;      LOCATION:  complement (30187..30274)
;      OTHER INFORMATION:  /gene= "AR"
;      OTHER INFORMATION:  /number= 14
;    FEATURE:
;      NAME/KEY:  exon
;      LOCATION:  complement (29945..30073)
;      OTHER INFORMATION:  /gene= "AR"
;      OTHER INFORMATION:  /number= 15
;    FEATURE:
;      NAME/KEY:  exon
;      LOCATION:  complement (29664..29856)
;      OTHER INFORMATION:  /gene= "ARS"
;      OTHER INFORMATION:  /number= 16
US-08-814-095-7

  Query Match             11.4%;  Score 230;  DB 3;  Length 35060;
  Best Local Similarity   57.7%;  Pred. No. 3.3e-43;
  Matches  486;  Conservative    0;  Mismatches  350;  Indels    6;  Gaps    4;

Qy        669 GCGGTATGCAAATGTAGCCAATAATATACTCAAACTCCTGGGCTCAAGCGATCCTCCCAC 728

Db       8199 GGGGTCTTGCTATGTTGCCCAGGCTGGTCTCGAACTCGTGAGCTCAAGCAATCTGCCCGC 8140

Qy        729 CTTAGCCTCCCAAAGTACTGGGATTATAGGTGTGAGCCACAGTGCCTGGCCTAATTATTT 788

Db       8139 CTCAGCCTCCCAAAGTGCTGGGATTACAGAAGTGAGCCACTGTGTCTGGTCTACGTTTTT 8080

Qy        789 TCTTGTGATCAAATTCAGGTTTAATGTTTTTGGTTAAGAATTTCCTACGTGAATTCGTGT 848

Db       8079 ATTTTAAATTGAGCATTAAGGGAATGCAGTCTTTTAATCAGAACTCTGCCAATGCTTTTT 8020

Qy        849 ACTTATTTTGTCATTTAGAGTTCATAAATATTAGGGTTTATTTTCTAAATAGAATAGTTT 908

Db       8019 ATCTAGATGCCTATTGCCACTTTTGTCTTCTATGAAATTTTTGTCTCAAGAAAAGCAGGA 7960

Qy        909 AAACTAAATATAACTTCAAAACGTCTAGTTTGAGTAGCTACCGTTGTTTGGATTGAAATT 968

Db       7959 TTACATTTTTTTTCCTTAACAGATTGAGTTGGTG-ATGTGTATTCTTGGTTACCAAAATG 7901

Qy        969 TTCTGATACTGAAAAGAACAAAAAGCCTGCCTTTCTGCCCAGAACCTTTTGCCTCCCCCA 1028

Db       7900 CTCACATAGCTTTAGGTTTTGAATGGGTAAATAT---TCATGATGCGTGAAAAAGCATAA 7844

Qy       1029 GTCAGTTCTTGGAGCAGCACTAGTTAGGGGCCCAGAGTTCGGCCTTCTGTGTGGTGATTT 1088

Db       7843 TACGTATTGTGTGATCTCAGTCCTATGAGATTGGATGTTCTGCCTACACCCAGGACCCTA 7784

Qy       1089 TACGCTCTGCCTAAA-CAAGGAGCCTACATCTTTTAGCTCCTATTCCACCCTTCTCACAC 1147

Db       7783 GAAGGAATGTCAAGCTGTAAAATGCTGGTGATTGTGGAGGACTTTGTTTTTTGCTTCCTG 7724

Qy       1148 GTTTTTGTTGTTGTTTGGTTGTTTTTTTTTGAGACAGAGTCTCACTCTGTTGCCCAGGCT 1207

Db       7723 TTTTTCAATTTCCTTTTTTTTTTTTTTTTTAGGCGGAGTCTCACTCTGTCACCCAGGCT 7664

Qy       1208 GGAGTGCAGTGGCACAATCTCGGCTCATTGCAACCTCCGCCTCCCGCGTTCAAGTGATTC 1267

Db       7663 GAAGTGCAATGACGCAGTCTTGGCTCACTGCAACCTCCGCCTCTTGAGCTCAAGCGATTC 7604

Qy       1268 TCTTGCCTCAGCCTCCCAAGTAACTGATATTACAGGCGCCCAGCCACCACACCCCGCTGA 1327

Db       7603 TCCTGCCTCAGCCTCCTGAATAGCTGGGATTACAGGC-ACATGCCACCACACCCGGCTAA 7545

Qy       1328 TTTTTGTATTTTTAGTAGAGACGGGGTTTCCCACGTTGGCCGGGCTGGTCTCAAACTCT 1387

Db       7544 TTTTTGTAATTTTAGTAGAGATGAGGTTTCACCATGTGGGCCAGGCTGGTCTTGAATTCC 7485

Qy       1388 TGACCTCAAGTGAACCACCCGCCTGTGCCTCCCAAAGTGCTGGAATTACCAGCGTGAGCC 1447

Db       7484 TGACTTCAGGTGATCCACCCGCCTCGGCCTCCCAAAGTGCTATGATTACAGGCATGAGCC 7425

Qy       1448 ACCATGCCGGGCTCACACGTTTGAGTTGATACCATTGTGCCATTCCTCTTTTGGCCTCTT 1507

Db       7424 ACTGTGCCCGGCCTATTTCTTCTATCTAATTGTATTTTTGTAGCTATCAACCAACCTCTC 7365

Qy       1508 TT 1509

Db       7364 TT 7363


RESULT 6
US-09-810-347-3
; Sequence 3, Application US/09810347
; Patent No. 6461847
; GENERAL INFORMATION:
;  APPLICANT: YE, Jane et al.
;  TITLE OF INVENTION: ISOLATED HUMAN ENZYME PROTEINS, NUCLEIC
;  TITLE OF INVENTION:  ACID MOLECULES ENCODING HUMAN ENZYME PROTEINS, AND USES
;  TITLE OF INVENTION:  THEREOF
;  FILE REFERENCE: CL001169
;  CURRENT APPLICATION NUMBER: US/09/810,347
;  CURRENT FILING DATE:  2001-03-19
;  NUMBER OF SEQ ID NOS: 6
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 3
;   LENGTH: 42571
;   TYPE: DNA
;   ORGANISM: Human
US-09-810-347-3

  Query Match             11.1%;  Score 224;  DB 4;  Length 42571;
  Best Local Similarity   83.9%;  Pred. No. 8.3e-42;
  Matches  265;  Conservative    0;  Mismatches   50;  Indels    1;  Gaps    1;

Qy       1149 TTTTTGTTGTTGTTTGGTTGTTTTTTTTTGAGACAGAGTCTCACTCTGTTGCCCAGGCTG 1208

Db      36514 TTGTTTTTTGTTGTTAGTGGTGGTTTTTTGAGATAGAGTCTCGCTCTGTTACCCAGGCTG 36573

Qy       1209 GAGTGCAGTGGCACAATCTCGGCTCATTGCAACCTCCGCCTCCCGCGTTCAAGTGATTCT 1268

Db      36574 GAGTGCAGTGGCGCAATCTCGGCTCACTGCACCCTCCACCTCTCTGGTTCAAAAGATTCT 36633

Qy       1269 CTTGCCTCAGCCTCCCAAGTAACTGATATTACAGGCGCCCAGCCACCACACCCCGCTGAT 1328

Db      36634 CCTGCCTCAGCCTCCTGAGTAGCTGGGATTACAGGCGCCC-GCCACCATGCCCAGCTAAT 36692

Qy       1329 TTTTGTATTTTTAGTAGAGACGGGGTTTCCCACGTTGGCCGGGCTGGTCTCAAACTCTT 1388

Db      36693 TTTTGTATTTTTAGTAGAGACGGGGTTTCCCCATGTTGGCCAGGCTGGTCTCGAACTCCT 36752

Qy       1389 GACCTCAAGTGAACCACCCGCCTGTGCCTCCCAAAGTGCTGGAATTACCAGCGTGAGCCA 1448

Db      36753 GACCTCAGGTGATTCACCCGCCTGGGCCTTCCAAAATGCTGGGATTACAGGCGTGAGCCA 36812

Qy       1449 CCATGCCGGGCTCACA 1464

Db      36813 CCATGGCTGGCCCAAA 36828


RESULT 7
US-10-027-983-11/c
; Sequence 11, Application US/10027983
; Patent No. 6617162
; GENERAL INFORMATION:
;  APPLICANT: Kenneth W. Dobie
;  APPLICANT:  Mark P. Roach
;  TITLE OF INVENTION: ANTISENSE MODULATION OF ESTROGEN RECEPTOR ALPHA EXPRESSION
;  FILE REFERENCE: RTS-0340
;  CURRENT APPLICATION NUMBER: US/10/027,983
;  CURRENT FILING DATE:  2001-12-18
;  NUMBER OF SEQ ID NOS: 98
; SEQ ID NO 11
;   LENGTH: 392000
;   TYPE: DNA
;   ORGANISM: Homo sapiens
```

; FEATURE:
; NAME/KEY: unsure
; LOCATION: 137740
; OTHER INFORMATION: unknown
; NAME/KEY: unsure
; LOCATION: 137742
; OTHER INFORMATION: unknown
; NAME/KEY: misc_feature
; LOCATION: (138122)...(138221)
; OTHER INFORMATION: n = A,T,C or G
; NAME/KEY: unsure
; LOCATION: 145507
; OTHER INFORMATION: unknown
; NAME/KEY: unsure
; LOCATION: 151967
; OTHER INFORMATION: unknown
; NAME/KEY: misc_feature
; LOCATION: (151967)...(1542066)
; OTHER INFORMATION: n = A,T,C or G
; NAME/KEY: unsure
; LOCATION: 154217
; OTHER INFORMATION: unknown
; NAME/KEY: misc_feature
; LOCATION: (164037)...(164136)
; OTHER INFORMATION: n = A,T,C or G
; NAME/KEY: misc_feature
; LOCATION: (174657)...(174756)
; OTHER INFORMATION: n = A,T,C or G
; NAME/KEY: misc_feature
; LOCATION: (186224)...(186323)
; OTHER INFORMATION: n = A,T,C or G
; NAME/KEY: misc_feature
; LOCATION: (195242)...(195341)
; OTHER INFORMATION: n = A,T,C or G
; NAME/KEY: unsure
; LOCATION: 202703
; OTHER INFORMATION: unknown
; NAME/KEY: misc_feature
; LOCATION: (202771)...(202870)
; OTHER INFORMATION: n = A,T,C or G
; NAME/KEY: misc_feature
; LOCATION: (206246)...(215602)
; OTHER INFORMATION: n = A,T,C or G
; NAME/KEY: misc_feature
; LOCATION: (218126)...(218225)
; OTHER INFORMATION: n = A,T,C or G
; NAME/KEY: misc_feature
; LOCATION: (220360)...(220459)
; OTHER INFORMATION: n = A,T,C or G
; NAME/KEY: misc_feature
; LOCATION: (222717)...(222816)
; OTHER INFORMATION: n = A,T,C or G
; NAME/KEY: misc_feature
; LOCATION: (223981)...(224080)
; OTHER INFORMATION: n = A,T,C or G
; NAME/KEY: misc_feature
; LOCATION: (227487)...(227586)
; OTHER INFORMATION: n = A,T,C or G
; NAME/KEY: misc_feature
; LOCATION: (230157)...(230256)
; OTHER INFORMATION: n = A,T,C or G
; NAME/KEY: misc_feature
; LOCATION: (232299)...(232398)
; OTHER INFORMATION: n = A,T,C or G
; NAME/KEY: misc_feature
; LOCATION: (236552)...(2366651)
; OTHER INFORMATION: n = A,T,C or G
; NAME/KEY: misc_feature
; LOCATION: (238789)...(248788)
; OTHER INFORMATION: n = A,T,C or G
; NAME/KEY: exon
; LOCATION: (118288)...(119101)
; OTHER INFORMATION: exon 1C
; NAME/KEY: exon:intron junction
; LOCATION: (151129)...(151130)
; OTHER INFORMATION: exon 5:intron 5
; NAME/KEY: exon:intron junction
; LOCATION: (299248)...(299249)
; OTHER INFORMATION: exon 9:intron 9
; NAME/KEY: exon:intron junction
; LOCATION: (348578)...(348579)
; OTHER INFORMATION: exon 10:intron 10
; NAME/KEY: intron
; LOCATION: (348579)...(381838)
; OTHER INFORMATION: intron 10
; NAME/KEY: intron:exon junction
; LOCATION: (386185)...(386186)
; OTHER INFORMATION: intron 11:exon 12
US-10-027-983-11

Query Match 11.1%; Score 223.6; DB 4; Length 392000;
Best Local Similarity 78.8%; Pred. No. 2.1e-41;
Matches 279; Conservative 0; Mismatches 74; Indels 1; Gaps 1;

```
Qy       1121 TTAGCTCCTATTCCACCCTTCTCACACGTTTTTGTTGTTGTTTGGTTGTTTTTTTTTGAG 1180
             | |  |||| |   | | ||      | ||||  || || |||  ||  ||| |||||||
Db      67783 TGATATCCTGTGAGATCATTTATTTTCTTTTTAATTTTTATTTTATTTATTTATTTTGAG 67724

Qy       1181 ACAGAGTCTCACTCTGTTGCCCAGGCTGGAGTGCAGTGGCACAATCTCGGCTCATTGCAA 1240
              |||||||||| |||||| ||||||||||||||||||||||| ||||  |||||| |||||
Db      67723 ACAGAGTCTCGCTCTGTCGCCCAGGCTGGAGTGCAGTGGCTCAATGCCGGCTCACTGCAA 67664

Qy       1241 CCTCCGCCTCCCGCGTTCAAGTGATTCTCTTGCCTCAGCCTCCCAAGTAACTGATATTAC 1300
              ||| ||||||| | ||||||| ||||||  ||||||||||||| |||| |||  |||||
Db      67663 CCTTCGCCTCCAGGGTTCAAGCGATTCTTGTGCCTCAGCCTCCCGAGTAGCTGGGATTAC 67604

Qy       1301 AGGCGCCCAGCCACCACACCCCGCTGATTTTTGTATTTTTAGTAGAGACGGGGTTTTCCC 1360
              ||||   || |||||||||||| ||| |||||||||||||| ||||||||||||||  ||
Db      67603 AGGCATGCA-CCACCACACCCAGCTAATTTTTGTATTTTTAATAGAGACGGGGTTTCACC 67545

Qy       1361 ACGTTGGCCGGGCTGGTCTCAAACTCTTGACCTCAAGTGAACCACCCGCCTGTGCCTCCC 1420
              | |||| || |||||||||  |||||| |||||||||||||| |  |||||||  |||||||
Db      67544 ATGTTGCCCAGGCTGGTCTTGAACTCCTGACCTCAAGTGATCTGCCCGCCTCGGCCTCCC 67485

Qy       1421 AAAGTGCTGGAATTACCAGCGTGAGCCACCATGCCGGGCTCACACGTTTGAGTT 1474
              |||||||||| |||||  |||||||||| || ||| ||| ||     || | ||
Db      67484 AAAGTGCTGGGATTACAGGCGTGAGCCATCACGCCCGGCCCATTTAATTTATTT 67431
```

RESULT 8
US-09-820-005-3
; Sequence 3, Application US/09820005
; Patent No. 6489149
; GENERAL INFORMATION:
; APPLICANT: SHAO, Wei et al
; TITLE OF INVENTION: ISOLATED HUMAN ENZYME PROTEINS, NUCLEIC
; TITLE OF INVENTION: ACID MOLECULES ENCODING HUMAN ENZYME PROTEINS, AND USES
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: CL001198
; CURRENT APPLICATION NUMBER: US/09/820,005
; CURRENT FILING DATE: 2001-03-29
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 18853
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(18853)
; OTHER INFORMATION: n = A,T,C or G
US-09-820-005-3

Query Match 10.9%; Score 220.4; DB 4; Length 18853;
Best Local Similarity 81.2%; Pred. No. 4.3e-41;
Matches 268; Conservative 0; Mismatches 61; Indels 1; Gaps 1;

```
Qy       1147 CGTTTTTGTTGTTGTTTGGTTGTTTTTTTTTTGAGACAGAGTCTCACTCTGTTGCCCAGGC 1206
              | || |  || ||||   || || | ||||||||||||||||  ||||||||||||
Db       2732 CTTTCTCTTTTTTGTTATTTTTTTGTGTTTTGAGACAGAGTCTTGATCTGTTGCCCAGGC 2791

Qy       1207 TGGAGTGCAGTGGCACAATCTCGGCTCATTGCAACCTCCGCCTCCCGCGTTCAAGTGATT 1266
              |||||||||||||| ||||| ||||| |||||||||||||| || ||||| || ||
Db       2792 CAGAGTGCAGTGGCACGATCTCAGCTCACTGCAACCTCCGCCTTCCAGGTTCAACTGGTT 2851

Qy       1267 CTCTTGCCTCAGCCTCCCAAGTAACTGATATTACAGGCGCCCAGCCACCACACCCCGCTG 1326
              ||| ||||||||||||  ||||  ||  |||||||| |||| ||||||| ||  |||
Db       2852 CTCCTGCCTCAGCCTCCAGAGTAGTTGGGATTACAGGTGCCCA-CCACCACGCCTGGCTA 2910

Qy       1327 ATTTTTGTATTTTTAGTAGAGACGGGGTTTTCCCACGTTGGCCGGGCTGGTCTCAAACTC 1386
              |||||||||||||||||||||||| ||||||  ||| ||||||| | ||||||||||||||
Db       2911 ATTTTTGTATTTTTAGTAGAGACAGGGTTTCACCATGTTGGCCAGACTGGTCTCAAACTC 2970

Qy       1387 TTGACCTCAAGTGAACCACCCGCCTGTGCCTCCCAAAGTGCTGGAATTACCAGCGTGAGC 1446
              |||||||||||||| |||||| |||| |||||||||||||||| |||||  || |||||
Db       2971 CTGACCTCAAGTGATCCACCCACCTGGGCCTCCCAAAGTGCTGGGATTACAGGCATGAGC 3030

Qy       1447 CACCATGCCGGGCTCACACGTTTGAGTTGA 1476
              |||| |||| |||       |||||  |||
Db       3031 CACCGTGCCTGGCCTGTTTTTTTGAAATGA 3060


RESULT 9
US-09-183-266A-16/c
; Sequence 16, Application US/09183266A
; Patent No. 6361954
; GENERAL INFORMATION:
;  APPLICANT: Stillman, Bruce
;  APPLICANT:  Williams, R. Sanders
;  APPLICANT:  Mendez, Juan
;  TITLE OF INVENTION: DNA REPLICATION-REGULATING GENES,
;  TITLE OF INVENTION:  ANTIBODIES THERETO AND DIAGNOSTIC APPLICATIONS THEREOF
;  FILE REFERENCE: CSHL96-01A3
;  CURRENT APPLICATION NUMBER: US/09/183,266A
;  CURRENT FILING DATE:  1998-10-30
;  PRIOR APPLICATION NUMBER: PCT/US97/07333
;  PRIOR FILING DATE: 1997-05-02
;  PRIOR APPLICATION NUMBER: 08/648,650
;  PRIOR FILING DATE: 1996-05-15
;  PRIOR APPLICATION NUMBER: 08/643,034
;  PRIOR FILING DATE: 1996-05-02
;  NUMBER OF SEQ ID NOS: 50
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 16
;   LENGTH: 685
;   TYPE: DNA
;   ORGANISM: H. sapiens
US-09-183-266A-16

  Query Match             10.9%;  Score 220.2;  DB 4;  Length 685;
  Best Local Similarity   81.8%;  Pred. No. 1.6e-41;
  Matches  266;  Conservative    0;  Mismatches   58;  Indels    1;  Gaps    1;

Qy       1144 ACACGTTTTTGTTGTTGTTTGGTTGTTTTTTTTTGAGACAGAGTCTCACTCTGTTGCCCA 1203
              || | || || |  || |||  || ||||| |||||||| ||||||||||||||||||||
Db        503 ACTCTTTCTTTTCTTTCTTTCTTTTTTTTTCTTTGAGACGGAGTCTCACTCTGTTGCCCA 444

Qy       1204 GGCTGGAGTGCAGTGGCACAATCTCGGCTCATTGCAACCTCCGCCTCCCGCGTTCAAGTG 1263
              ||||| | |||| || |||||||||  |||||||||||||| |||||||| ||| |||||
Db        443 GGCTGAAATGCAATGCCACAATCTCAACTCATTGCAACCTCTGCCTCCCGGGTTGAAGTG 384

Qy       1264 ATTCTCTTGCCTCAGCCTCCCAAGTAACTGATATTACAGGCGCCCAGCCACCACACCCCG 1323
              |||||| |||||||||||||||||||| |||  |||||| |    || ||||||||||| |
Db        383 ATTCTCCTGCCTCAGCCTCCCAAGTAGCTGGGATTACAAGGATGCA-CCACCACACCCAG 325

Qy       1324 CTGATTTTTGTATTTTTAGTAGAGACGGGGTTTTCCCACGTTGGCCGGGCTGGTCTCAAA 1383
              || |||||| |||||||||||||| |||||||  |||| ||||||  |||||||||  ||
Db        324 CTAATTTTTATATTTTTAGTAGAGATGGGGTTTCGCCACATTGGCCAGGCTGGTCTTGAA 265

Qy       1384 CTCTTGACCTCAAGTGAACCACCCGCCTGTGCCTCCCAAAGTGCTGGAATTACCAGCGTG 1443
              ||| |||||||| |||| ||||| ||||  |||||||||||||| |||||||||  | |||
Db        264 CTCCTGACCTCAGGTGATCCACCTGCCTCAGCCTCCCAAAGTGTTGGAATTACAGGTGTG 205

Qy       1444 AGCCACCATGCCGGGCTCACACGTT 1468
              |||||||   || |||  || | ||
Db        204 AGCCACCGCACCAGGCCTACTCTTT 180


RESULT 10
US-09-584-568C-1/c
; Sequence 1, Application US/09584568C
; Patent No. 6500657
; GENERAL INFORMATION:
;  APPLICANT: Glucksmann, Maria, Alexandra et al.
;  TITLE OF INVENTION: 33167, A NOVEL HUMAN HYDROLASE AND USES THEREFOR
;  FILE REFERENCE: MNI-140
;  CURRENT APPLICATION NUMBER: US/09/584,568C
;  CURRENT FILING DATE:  2000-05-31
;  PRIOR APPLICATION NUMBER: 60/193,954
;  PRIOR FILING DATE: 2000-03-31
;  NUMBER OF SEQ ID NOS: 11
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1
;   LENGTH: 1332
;   TYPE: DNA
;   ORGANISM: Homo sapiens
;   FEATURE:
;   NAME/KEY: CDS
;   LOCATION: (47)..(991)
US-09-584-568C-1

  Query Match             10.9%;  Score 220.2;  DB 4;  Length 1332;
  Best Local Similarity   84.1%;  Pred. No. 2e-41;
  Matches  260;  Conservative    0;  Mismatches   48;  Indels    1;  Gaps    1;

Qy       1151 TTTGTTGTTGTTTGGTTGTTTTTTTTTGAGACAGAGTCTCACTCTGTTGCCCAGGCTGGA 1210
              ||| || || |||  || |||||||||||||||||||  |||||||||| ||||||||
Db       1322 TTTTTTTTTTTTTTTTTTTTTTTTTTTGAGACAGAGTCTTGCTCTGTTGCCTAGGCTGGA 1263

Qy       1211 GTGCAGTGGCACAATCTCGGCTCATTGCAACCTCCGCCTCCCGCGTTCAAGTGATTCTCT 1270
              ||| |||||    |||||||||||||||||||||| |||||| | ||||||||||||||
Db       1262 GTGTAGTGGTGTGATCTCGGCTCATTGCAACCTCTGCCTCCAGGGTTCAAGTGATTCTCC 1203

Qy       1271 TGCCTCAGCCTCCCAAGTAACTGATATTACAGGCGCCCAGCCACCACACCCCGCTGATTT 1330
              |||||||||||||  |||| |||  |||||||| |  || ||||||| ||  ||| ||||
Db       1202 TGCCTCAGCCTCCAGAGTAGCTGGGATTACAGGTGTGCA-CCACCACGCCAGGCTAATTT 1144

Qy       1331 TTGTATTTTTAGTAGAGACGGGGTTTTCCCACGTTGGCCGGGCTGGTCTCAAACTCTTGA 1390
              |||||||||||||||||| ||||||  ||| ||||||| |||||||||| ||||| ||
Db       1143 TTGTATTTTTAGTAGAGACAGGGTTTCACCATGTTGGCCAGGCTGGTCTCCAACTCCTGG 1084

Qy       1391 CCTCAAGTGAACCACCCGCCTGTGCCTCCCAAAGTGCTGGAATTACCAGCGTGAGCCACC 1450
              |||||||| | || |||||||  |||||||||||||||||||||||||  || |||||||||
Db       1083 CCTCAAGTCATCCTCCCGCCTTAGCCTCCCAAAGTGCTGGAATTACAGGCATGAGCCACC 1024

Qy       1451 ATGCCGGGC 1459
              | ||| |||
Db       1023 ACGCCCGGC 1015


RESULT 11
US-09-491-356C-1
; Sequence 1, Application US/09491356C
; Patent No. 6566061
; GENERAL INFORMATION:
;  APPLICANT: Philibert, Robert A.
;  APPLICANT:  Ginns, Edward I.
;  APPLICANT:  Delisi, Lynn
;  TITLE OF INVENTION: IDENTIFICATION OF POLYMORPHISMS IN THE PCTG4 REGION OF XQ13
;  FILE REFERENCE: 9465.6USI1
;  CURRENT APPLICATION NUMBER: US/09/491,356C
;  CURRENT FILING DATE:  2000-01-26
```

```
;  PRIOR APPLICATION NUMBER: PCT/US99/09365
;  PRIOR FILING DATE: 1999-04-29
;  PRIOR APPLICATION NUMBER: 60/083,465
;  PRIOR FILING DATE: 1998-04-29
;  NUMBER OF SEQ ID NOS: 24
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
;   LENGTH: 55298
;   TYPE: DNA
;   ORGANISM: Homo sapiens
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (485)..(485)
;   OTHER INFORMATION: n is not determined
;   NAME/KEY: misc_feature
;   LOCATION: (838)..(838)
;   OTHER INFORMATION: n is not determined
;   NAME/KEY: misc_feature
;   LOCATION: (16728)..(16728)
;   OTHER INFORMATION: n is not determined
;   NAME/KEY: misc_feature
;   LOCATION: (22750)..(22750)
;   OTHER INFORMATION: n is not determined
;   NAME/KEY: misc_feature
;   LOCATION: (22756)..(22756)
;   OTHER INFORMATION: n is not determined
;   NAME/KEY: misc_feature
;   LOCATION: (28519)..(28519)
;   OTHER INFORMATION: n is not determined
;   NAME/KEY: misc_feature
;   LOCATION: (44804)..(44804)
;   OTHER INFORMATION: n is not determined
;   NAME/KEY: misc_feature
;   LOCATION: (45002)..(45002)
;   OTHER INFORMATION: n is not determined
;   NAME/KEY: misc_feature
;   LOCATION: (54049)..(54049)
;   OTHER INFORMATION: n is not determined
;   NAME/KEY: misc_feature
;   LOCATION: (54226)..(54226)
;   OTHER INFORMATION: n is not determined
US-09-491-356C-1

  Query Match             10.9%;  Score 219.2;  DB 4;  Length 55298;
  Best Local Similarity   76.9%;  Pred. No. 1.1e-40;
  Matches  280;  Conservative    0;  Mismatches   83;  Indels    1;  Gaps    1;

Qy       1096 TGCCTAAACAAGGAGCCTACATCTTTTAGCTCCTATTCCACCCTTCTCACACGTTTTTGT 1155
              | ||| | ||  || || |      |    |||     |  |||        ||| | |
Db      42815 TTCCTGAGCACTGAACCCATCAGCGGTTCACTCTAAGGTGCTTATCTTTTTTCTTTCTTT 42874

Qy       1156 TGTTGTTTGGTTGTTTTTTTTTGAGACAGAGTCTCACTCTGTTGCCCAGGCTGGAGTGCA 1215
                || |||  || ||| ||||||||||||||||||| |||||| || ||||||||||||||
Db      42875 CTTTTTTTTTTTTTTCTTTTTGAGACAGAGTCTCGCTCTGTCGCTCAGGCTGGAGTGCA 42934

Qy       1216 GTGGCACAATCTCGGCTCATTGCAACCTCCGCCTCCCGCGTTCAAGTGATTCTCTTGCCT 1275
              |||||  |||||||||||| | ||||||||||||||||  ||| |||  |||||| |||||
Db      42935 ATGGCATGATCTCGGCTCACTACAACCTCCGCCTCCCCGGTTAAAGCAATTCTCCTGCCT 42994

Qy       1276 CAGCCTCCCAAGTAACTGATATTACAGGCGCCCAGCCACCACACCCCGCTGATTTTTGTA 1335
              |||||||||||||| |||  ||||||||| || |||||||||||| ||  |||||||||
Db      42995 CAGCCTCCCAAGTAGCTGGGATTACAGGCG-CCTGCCACCACACCCGGCATATTTTTGTA 43053

Qy       1336 TTTTTAGTAGAGACGGGGTTTCCCACGTTGGCCGGGCTGGTCTCAAACTCTTGACCTCA 1395
              |||||||||||||||||||  ||| ||||||| |||||||  ||||| ||||||||
Db      43054 TTTTTAGTAGAGACGGGGTTTCACCATGTTGGCCAGGCTGGTCTTGAACTCCTGACCTCA 43113

Qy       1396 AGTGAACCACCCGCCTGTGCCTCCCAAAGTGCTGGAATTACCAGCGTGAGCCACCATGCC 1455
              |||| ||||| ||||  |||||||||||||||||| ||||  || |||||| || |||
Db      43114 GGTGATCCACCTGCCTCGGCCTCCCAAAGTGCTGGGATTACAGGCATGAGCCATCACGCC 43173

Qy       1456 GGGC 1459
                ||
Db      43174 CAGC 43177


RESULT 12
US-09-883-096-1
; Sequence 1, Application US/09883096
; Patent No. 6680369
; GENERAL INFORMATION:
;  APPLICANT: Beraud, Christophe
;  APPLICANT:  Craven, Andrew
;  APPLICANT:  Yu, Ming
;  APPLICANT:  Sakowicz, Roman
;  APPLICANT:  Patel, Umesh A.
;  APPLICANT:  Davies, Katherine A.
;  TITLE OF INVENTION: NOVEL MOTOR PROTEINS AND METHODS FOR THEIR USE
;  FILE REFERENCE: 020552-001410US
;  CURRENT APPLICATION NUMBER: US/09/883,096
;  CURRENT FILING DATE:  2001-06-15
;  PRIOR APPLICATION NUMBER: US 09/594,655
;  PRIOR FILING DATE: 2000-06-15
;  NUMBER OF SEQ ID NOS: 6
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
;   LENGTH: 4108
;   TYPE: DNA
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Nucleic acid sequence of  human kinesin motor
;   OTHER INFORMATION: protein gene HsKip3a (Figure 1).
;   OTHER INFORMATION: Description of Artificial Sequence: HsKip3a gene.
US-09-883-096-1

  Query Match             10.8%;  Score 218.6;  DB 4;  Length 4108;
  Best Local Similarity   76.7%;  Pred. No. 6.8e-41;
  Matches  280;  Conservative    0;  Mismatches   84;  Indels    1;  Gaps    1;

Qy       1148 GTTTTTGTTGTTGTTTGGTTGTTTTTTTTTGAGACAGAGTCTCACTCTGTTGCCCAGGCT 1207
              ||  || ||||| |||| || |||| |||||||| |||||| ||||||| |||||||||
Db       2995 GTGGTTTTTGTTTTTTGTTTTTTTTGTTTTGAGATGGAGTCTTACTCTGTCGCCCAGGCT 3054

Qy       1208 GGAGTGCAGTGGCACAATCTCGGCTCATTGCAACCTCCGCCTCCCGCGTTCAAGTGATTC 1267
              |||||||||||| || |||| |||||| |||||||||||||||| | |||||||| ||||
Db       3055 GGAGTGCAGTGGTACGATCTTGGCTCACTGCAACCTCCGCCTCCTGGGTTCAAGTAATTC 3114

Qy       1268 TCTTGCCTCAGCCTCCCAAGTAACTGATATTACAGGCGCCCAGCCACCACACCCCGCTGA 1327
              || ||||||||| | ||||||| |||  |||||||||| ||||  |||||||||| ||| |
Db       3115 TCCTGCCTCAGCTTTCCAAGTAGCTGGGATTACAGGCACCCA-TCACCACACCCAGCTAA 3173

Qy       1328 TTTTTGTATTTTTAGTAGAGACGGGGTTTTCCCACGTTGGCCGGGCTGGTCTCAAACTCT 1387
              |||| || |||||| |||||| |||||||| ||| ||||||| |||||||||  |||||
Db       3174 TTTTCGTCTTTTTAATAGAGAGGGGGTTTTTCCATGTTGGCCAGGCTGGTCTTGAACTCC 3233

Qy       1388 TGACCTCAAGTGAACCACCCGCCTGTGCCTCCCAAAGTGCTGGAATTACCAGCGTGAGCC 1447
              |||||||| |||| || || ||||  || |||||||||||||  |||||  || |||||
Db       3234 TGACCTCAGGTGATCCGCCTGCCTCAGCTTCCCAAAGTGCTGAGATTACAGGCATGAGCT 3293

Qy       1448 ACCATGCCGGGCTCACACGTTTGAGTTGATACCATTGTGCCATTCCTCTTTTGGCCTCTT 1507
              |||| ||| ||| |      ||  || |      ||     |||| |  |     | ||
Db       3294 ACCACGCCTGGCCCGTGTTGCTGTTTTAAAGGTGCTGCCATGTTCCCCCATCTTTTTTTT 3353

Qy       1508 TTTTG 1512
              |||||
Db       3354 TTTTG 3358


RESULT 13
US-09-061-702-1
; Sequence 1, Application US/09061702
; Patent No. 6165737
;  GENERAL INFORMATION:
;    APPLICANT:  Wang, Xiaodong
;    APPLICANT:  Liu, Xuesong
;    TITLE OF INVENTION:  DNA FRAGMENTATION FACTOR INVOLVED IN
```

```
;    TITLE OF INVENTION:  APOPTOSIS
;    NUMBER OF SEQUENCES:  21
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Arnold, White & Durkee
;      STREET:  P.O. Box 4433
;      CITY:  Houston
;      STATE:  TX
;      COUNTRY:  USA
;      ZIP:  77210-4433
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/09/061,702
;      FILING DATE:  Concurrently Herewith
;      CLASSIFICATION:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  McMillian, Nabeela R.
;      REGISTRATION NUMBER:  P-43,363
;      REFERENCE/DOCKET NUMBER:  UTSD:546
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (512)418-3000
;      TELEFAX:  (512)474-7577
;  INFORMATION FOR SEQ ID NO:  1:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  2839 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
US-09-061-702-1

  Query Match            10.8%;  Score 218.2;  DB 3;  Length 2839;
  Best Local Similarity  58.0%;  Pred. No. 7.4e-41;
  Matches  462;  Conservative    0;  Mismatches  328;  Indels    7;  Gaps    4;

Qy        669 GCGGTATGCAAATGTAGCCAATAATATACTCAAACTCCTGGGCTCAAGCGATCCTCCCAC 728
Db       1480 GGGGTTTCACCATGTTGGTCAGGCTGGTCTCAAACTCCTGACCTCAGGTGATCCGCCCAC 1539

Qy        729 CTTAGCCTCCCAAAGTACTGGGATTATAGGTGTGAGCCACAGTGCCTGGCCTAATTATTT 788
Db       1540 CTCAGCCTCCCAAAGTGCTGGGATGACAGGTGTGAGCCACTGCGCCCAGCCTGAATCATT 1599

Qy        789 TCTTGTGATCAAATTCAGGTTTAATGTTTTTGGTTAAGAATTTCCTACGTGAATTCGTGT 848
Db       1600 TCTTATACCTTCTGACAGCCCAACTTCCAGAGGACAGCTCTGGGGTACTCGTTGGATGTC 1659

Qy        849 ACTTATTTTGTCAT-TTAGAGTTCATAAATATTAGGGTTTATTTTCTAAATAGAATAGTT 907
Db       1660 TGTGAGTACCTGGTCATACGGGTCAGTAGGGATAAGAATTGTCTCTGGGCTGAGGAATTC 1719

Qy        908 TAAACTAAATATAACTTCAAAACGTCTAGTTTGAGTAGCTACCGTTGTTTGGATTGAAAT 967
Db       1720 TTCTGTTCTCTGGTTTCACCAGCGTTGGGTTTGCTCATGTAATGTGGTCACCATACTCAA 1779

Qy        968 TTTCTGATACTGAAAAGAACAAAAAGCCTGCCTTTCTGCCCAGAACCTTTTGCCTCCCCC 1027
Db       1780 ATGGTGTCATGGCTGAAGTTGGCCACCTTGCTTGAGGGACAAGTTGTTTATGTATCAGCT 1839

Qy       1028 AGTCAGTTCTTGGAGCAGCACTAGTTAGGGGCCCAGAGTTCGGCCTTCTGTGTGGTGATT 1087
Db       1840 CTCTGCTGGGTCTCCCTTTCCATGGCAAATGGGCAGCTCCATCCTCTTGATCTTCTAAAT 1899

Qy       1088 ----TTACGCTCTGCCTAAACAAGGAGCCTACATCTTTTAGCTCCTATTCCACCCTTCTC 1143
Db       1900 GCCCAAAAGAGGTGTCATGCTTTGGGGGTACGATGTTTATACTCCGTAAAGAACATACAA 1959

Qy       1144 ACACGTT-TTTGTTGTTGTTTGGTTGTTTTTTTTTGAGACAGAGTCTCACTCTGTTGCCC 1202
Db       1960 GGACATTCACTGCTGATTTTTTTTTTTTGTTTGTTTGAGACAGGGTCTCACTCTGTCGCTC 2019

Qy       1203 AGGCTGGAGTGCAGTGGCACAATCTCGGCTCATTGCAACCTCCGCCTCCCGCGTTCAAGT 1262
Db       2020 AGGCTGGAGTGCAGTGATGCAATCTTGGCTCACTGCAACCTCCGCCTCTCAGGTTCAAGT 2079

Qy       1263 GATTCTCTTGCCTCAGCCTCCCAAGTAACTGATATTACAGGCGCCCAGCCACCACACCCC 1322
Db       2080 GGTTCTCCTGCCTCAGCCTCCCAAGTAGCTGGGATTACAGGCACCTA-CCACCAGGGCCA 2138

Qy       1323 GCTGATTTTTGTATTTTTAGTAGAGACGGGGTTTTCCCACGTTGGCCGGGCTGGTCTCAA 1382
Db       2139 GCTAATTTTTGTATGTTTAGTAGTAACGGGGTTTCACCATGTTGGCCAGGCTGTTCTCGA 2198

Qy       1383 ACTCTTGACCTCAAGTGAACCACCCGCCTGTGCCTCCCAAAGTGCTGGAATTACCAGCGT 1442
Db       2199 ACTCCTGACCTCAGGTGATCTGCCCGCCTCGGTCTCCCAAAGTGCTGGGATTACAGGCAT 2258

Qy       1443 GAGCCACCATGCCGGGC 1459
Db       2259 GAGCCACTGCACCTGAC 2275


RESULT 14
US-09-791-211-10/c
; Sequence 10, Application US/09791211
; Patent No. 6448080
; GENERAL INFORMATION:
;  APPLICANT:  Donna T. Ward
;  APPLICANT:  Andrew T. Watt
;  TITLE OF INVENTION:  ANTISENSE MODULATION OF WRN EXPRESSION
;  FILE REFERENCE:  RTS-0205
;  CURRENT APPLICATION NUMBER: US/09/791,211
;  CURRENT FILING DATE:  2001-02-23
;  NUMBER OF SEQ ID NOS:  90
; SEQ ID NO 10
;   LENGTH: 98844
;   TYPE: DNA
;   ORGANISM: Homo sapiens
;   FEATURE:
;   NAME/KEY: unsure
;   LOCATION: 24962
;   OTHER INFORMATION: unknown
;   NAME/KEY: unsure
;   LOCATION: 64383
;   OTHER INFORMATION: unknown
;   NAME/KEY: unsure
;   LOCATION: 65468
;   OTHER INFORMATION: unknown
;   NAME/KEY: unsure
;   LOCATION: 65469
;   OTHER INFORMATION: unknown
;   NAME/KEY: unsure
;   LOCATION: 65470
;   OTHER INFORMATION: unknown
;   NAME/KEY: unsure
;   LOCATION: 65471
;   OTHER INFORMATION: unknown
;   NAME/KEY: unsure
;   LOCATION: 87130
;   OTHER INFORMATION: unknown
;   NAME/KEY: unsure
;   LOCATION: 89049
;   OTHER INFORMATION: unknown
;   OTHER INFORMATION:
US-09-791-211-10

  Query Match            10.8%;  Score 217.4;  DB 4;  Length 98844;
  Best Local Similarity  80.4%;  Pred. No. 3.6e-40;
  Matches  279;  Conservative    0;  Mismatches   66;  Indels    2;  Gaps    2;

Qy       1138 CTTCTCACACGTTTTTGTTGTTGTTTGGTTGTTTTTTTTTGAGACAGAGTCTCACTC-TG 1196
Db      82345 CATGTAAAAATTCACTTTTTTTTTTTTTTTTTTTTTTTTGAGACAGAGTTTCGCTCTTG 82286
```

```
Qy       1197 TTGCCCAGGCTGGAGTGCAGTGGCACAATCTCGGCTCATTGCAACCTCCGCCTCCCGCGT 1256
             ||||||||||||||||| | |||||||||||||||||| |||||||||| |||||||| ||
Db      82285 TTGCCCAGGCTGGAGTGGAATGGCACAATCTCGGCTCACTGCAACCTCCACCTCCCGAGT 82226

Qy       1257 TCAAGTGATTCTCTTGCCTCAGCCTCCCAAGTAACTGATATTACAGGCGCCCAGCCACCA 1316
             |||||  |||| | ||||||||||||||||||| |||  ||||||||  || |||||||
Db      82225 TCAAGCAATTCCCCTGCCTCAGCCTCCCAAGTAGCTGGGATTACAGGC-ACCTGCCACCA 82167

Qy       1317 CACCCCGCTGATTTTTGTATTTTTAGTAGAGACGGGGTTTTCCCACGTTGGCCGGGCTGG 1376
             | ||| ||| ||| |||||||||||||||||||| ||||||  ||| |||| || ||||||
Db      82166 CGCCCAGCTAATTGTTGTATTTTTAGTAGAGACAGGGTTTCACCATGTTGACCAGGCTGG 82107

Qy       1377 TCTCAAACTCTTGACCTCAAGTGAACCACCCGCCTGTGCCTCCCAAAGTGCTGGAATTAC 1436
             |||| ||||| |||||||| |||| |||||| ||| ||||||||||||||| | |||
Db      82106 TCTCGAACTCCTGACCTCAGGTGATCCACCCACCTCGGCCTCCCAAAGTGCTGGGACTAC 82047

Qy       1437 CAGCGTGAGCCACCATGCCGGGCTCACACGTTTGAGTTGATACCATT 1483
                |||||||||||||||| |||  | |  |   | ||  ||  |||
Db      82046 AGGCGTGAGCCACCATGCCCGGCCAAAATTTGCTATTTTTTATAATT 82000
```

RESULT 15
US-09-167-681-45
; Sequence 45, Application US/09167681A
; Patent No. 6265561
; GENERAL INFORMATION:
; APPLICANT: Weinshilboum, M.D., Richard M.
; APPLICANT: Raftogianis, Rebecca B.
; APPLICANT: Wood, Thomas C.
; APPLICANT: Otterness, Diane M.
; TITLE OF INVENTION: SULFOTRANSFERASE SEQUENCE VARIANTS
; FILE REFERENCE: 07039/118001
; CURRENT APPLICATION NUMBER: US/09/167,681A
; CURRENT FILING DATE: 1998-10-07
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 45
; LENGTH: 8447
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (4361)...(4507)
; NAME/KEY: CDS
; LOCATION: (4612)...(4737)
; NAME/KEY: CDS
; LOCATION: (4827)...(4925)
; NAME/KEY: CDS
; LOCATION: (6322)...(6447)
; NAME/KEY: CDS
; LOCATION: (6543)...(6638)
; NAME/KEY: CDS
; LOCATION: (7137)...(7316)
; NAME/KEY: CDS
; LOCATION: (7439)...(7553)
US-09-167-681-45

Query Match 10.8%; Score 217; DB 3; Length 8453;
Best Local Similarity 76.4%; Pred. No. 2e-40;
Matches 279; Conservative 0; Mismatches 85; Indels 1; Gaps 1;

```
Qy       1139 TTCTCACACGTTTTTGTTGTTGTTTGGTTGTTTTTTTTTTGAGACAGAGTCTCACTCTGTT 1198
             ||||  |    |||  || || |||  || ||||||||||||||||||||||||||||||
Db      1679 TTCTTTCTTTCTTTCTTTTTTTTTTTTTTTTTTTTTTTTTGAGACAGAGTCTCACTCTGTT 1738

Qy       1199 GCCCAGGCTGGAGTGCAGTGGCACAATCTCGGCTCATTGCAACCTCCGCCTCCCGCGTTC 1258
             ||||||||||||||||||    |||| |||||| || ||||||||||||| | ||||
Db      1739 GCCCAGGCTGGAGTGCAGTGGTGTGATCTTGGCTCACTGAAACCTCCGCCTCCTGGGTTC 1798

Qy       1259 AAGTGATTCTCTTGCCTCAGCCTCCCAAGTAACTGATATTACAGGCGCCCAGCCACCACA 1318
             ||||||||||||||||||||||||  |||| ||   |||||||| |||| |||| ||
Db      1799 AAGTGATTCTCTTGCCTCAGCCTCCTGAGTAGCTAGGATTACAGGTGCCC-GCCATCATG 1857

Qy       1319 CCCCGCTGATTTTTGTATTTTTAGTAGAGACGGGGTTTTCCCACGTTGGCCGGGCTGGTC 1378
             ||| ||| |||||||||||||||||||||||| |||||| ||| ||||||| | |||||
Db      1858 CCCAGCTAATTTTTGTATTTTTAGTAGAGACAGGGTTTCACCATGTTGGCCAGCTTGGTC 1917

Qy       1379 TCAAACTCTTGACCTCAAGTGAACCACCCGCCTGTGCCTCCCAAAGTGCTGGAATTACCA 1438
             || ||||| |||||||| |||| ||  | || |  |||||||||| |||| |||||
Db      1918 TCGAACTCCTGACCTCAGGTGATCCTGCTGCATCGACCTCCCAAAGTACTGGGATTACAG 1977

Qy       1439 GCGTGAGCCACCATGCCGGGCTCACACGTTTGAGTTGATACCATTGTGCCATTCCTCTTT 1498
             |||||||||||| ||  ||      ||    | ||  |  ||  |  ||| |||
Db      1978 GCGTGAGCCACCACGCTCAGCCTCTTTCTTGTTCTATATGTCCATGCTCTGCTCCACTTC 2037

Qy       1499 TGGCC 1503
             || ||
Db      2038 TGCCC 2042
```

Search completed: July 10, 2004, 14:04:21
Job time : 150 secs

GenCore version 5.1.6

OM nucleic - nucleic search, using sw model

Run on: July 10, 2004, 11:37:10 ; Search time 902 Seconds
(without alignments)
10898.695 Million cell updates/sec

Title: US-09-813-492-1
Perfect score: 2017
Sequence: 1 tagataccctgaacacctcc.....ataccaaaaaaaaaaaaaaa 2017

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 3183909 seqs, 2436941669 residues

Total number of hits satisfying chosen parameters: 6367818

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published_Applications_NA:*
1: /cgn2_6/ptodata/1/pubpna/US07_PUBCOMB.seq:*
2: /cgn2_6/ptodata/1/pubpna/PCT_NEW_PUB.seq:*
3: /cgn2_6/ptodata/1/pubpna/US06_NEW_PUB.seq:*
4: /cgn2_6/ptodata/1/pubpna/US06_PUBCOMB.seq:*
5: /cgn2_6/ptodata/1/pubpna/US07_NEW_PUB.seq:*
6: /cgn2_6/ptodata/1/pubpna/PCTUS_PUBCOMB.seq:*
7: /cgn2_6/ptodata/1/pubpna/US08_NEW_PUB.seq:*
8: /cgn2_6/ptodata/1/pubpna/US08_PUBCOMB.seq:*
9: /cgn2_6/ptodata/1/pubpna/US09A_PUBCOMB.seq:*
10: /cgn2_6/ptodata/1/pubpna/US09B_PUBCOMB.seq:*
11: /cgn2_6/ptodata/1/pubpna/US09C_PUBCOMB.seq:*
12: /cgn2_6/ptodata/1/pubpna/US09_NEW_PUB.seq:*
13: /cgn2_6/ptodata/1/pubpna/US09_NEW_PUB.seq2:*
14: /cgn2_6/ptodata/1/pubpna/US10A_PUBCOMB.seq:*
15: /cgn2_6/ptodata/1/pubpna/US10B_PUBCOMB.seq:*
16: /cgn2_6/ptodata/1/pubpna/US10C_PUBCOMB.seq:*
17: /cgn2_6/ptodata/1/pubpna/US10_NEW_PUB.seq:*
18: /cgn2_6/ptodata/1/pubpna/US60_NEW_PUB.seq:*
19: /cgn2_6/ptodata/1/pubpna/US60_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	2017	100.0	2017	9	US-09-813-492-1	Sequence 1, Appli
2	1035.2	51.3	3117	9	US-09-834-795A-6	Sequence 6, Appli
3	1035.2	51.3	3117	10	US-09-834-794A-6	Sequence 6, Appli
4	542.2	26.9	643	15	US-10-106-698-1194	Sequence 1194, Ap
5	501.8	24.9	698	13	US-10-296-115-255	Sequence 255, App
6	498	24.7	731	9	US-09-898-751A-5	Sequence 5, Appli
7	498	24.7	731	15	US-10-146-496-1	Sequence 1, Appli
8	497	24.6	768	9	US-09-931-381A-1	Sequence 1, Appli
9	418.6	20.8	904	10	US-09-814-353-21771	Sequence 21771, A
10	369.6	18.3	496	15	US-10-146-496-3	Sequence 3, Appli
c 11	361.8	17.9	472	9	US-09-964-824A-56	Sequence 56, Appl
c 12	361.8	17.9	472	10	US-09-873-367C-175	Sequence 175, App
c 13	356.4	17.7	533	15	US-10-029-386-4899	Sequence 4899, Ap
14	354.8	17.6	411	10	US-09-918-995-35876	Sequence 35876, A
c 15	302	15.0	311	9	US-09-834-795A-11	Sequence 11, Appl
c 16	302	15.0	311	10	US-09-834-794A-11	Sequence 11, Appl
17	261.4	13.0	445	15	US-10-146-496-4	Sequence 4, Appli
18	255.2	12.7	435	10	US-09-814-353-18453	Sequence 18453, A
c 19	234.8	11.6	118931	13	US-10-087-192-1108	Sequence 1108, Ap
20	232.6	11.5	227931	16	US-10-085-117-274	Sequence 274, App
21	232.4	11.5	128668	13	US-10-087-192-340	Sequence 340, App
c 22	231.8	11.5	6122	15	US-10-225-567A-179	Sequence 179, App
23	230.6	11.4	100445	17	US-10-322-281-170	Sequence 170, App
24	230.2	11.4	14277	17	US-10-715-066-3	Sequence 3, Appli
25	230	11.4	107745	17	US-10-322-281-268	Sequence 268, App
26	230	11.4	300000	15	US-10-262-552-33	Sequence 33, Appl
27	230	11.4	300000	17	US-10-703-210-33	Sequence 33, Appl
28	229.8	11.4	41322	15	US-10-024-396-13	Sequence 13, Appl
29	229.8	11.4	106938	17	US-10-322-281-566	Sequence 566, App
30	229.8	11.4	158091	13	US-10-235-192A-38	Sequence 38, Appl
c 31	228.6	11.3	17397	9	US-09-764-869-1945	Sequence 1945, Ap
c 32	228.6	11.3	17397	15	US-10-091-504-1945	Sequence 1945, Ap
c 33	228.6	11.3	17397	16	US-10-227-577-1945	Sequence 1945, Ap
c 34	228.6	11.3	19334	9	US-09-764-869-1943	Sequence 1943, Ap
c 35	228.6	11.3	19334	15	US-10-091-504-1943	Sequence 1943, Ap
c 36	228.6	11.3	19334	16	US-10-227-577-1943	Sequence 1943, Ap
c 37	228.6	11.3	19345	9	US-09-764-869-1944	Sequence 1944, Ap
c 38	228.6	11.3	19345	15	US-10-091-504-1944	Sequence 1944, Ap
c 39	228.6	11.3	19345	16	US-10-227-577-1944	Sequence 1944, Ap
40	228.6	11.3	29001	17	US-10-317-270-11	Sequence 11, Appl
c 41	228.6	11.3	139257	10	US-09-920-671-11	Sequence 11, Appl
c 42	228.4	11.3	612	10	US-09-814-353-240	Sequence 240, App
c 43	228.4	11.3	612	10	US-09-814-353-6630	Sequence 6630, Ap
44	228.2	11.3	31994	9	US-09-764-860-599	Sequence 599, App
45	228.2	11.3	31994	9	US-09-764-904-71	Sequence 71, Appl

ALIGNMENTS

RESULT 1
US-09-813-492-1
; Sequence 1, Application US/09813492
; Patent No. US20020009735A1
; GENERAL INFORMATION:
; APPLICANT: Labow, Mark A.
; APPLICANT: Mickanin, Craig Stephen
; APPLICANT: Bhatia, Umesh
; TITLE OF INVENTION: MAMMARY GLAND CHEMOKINE
; FILE REFERENCE: 12345
; CURRENT APPLICATION NUMBER: US/09/813,492
; CURRENT FILING DATE: 2001-03-21
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 2017
; TYPE: DNA
; ORGANISM: HUMAN
US-09-813-492-1

Query Match 100.0%; Score 2017; DB 9; Length 2017;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2017; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
Qy          1 TAGATACCCTGAACACCTCCCAGGGCGGGGCCACCTGGCTTACTTTTCCTCTGCACTTTC 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 TAGATACCCTGAACACCTCCCAGGGCGGGGCCACCTGGCTTACTTTTCCTCTGCACTTTC 60

Qy         61 TCTGTGCCCAAGGACACCTTTAGCCTCATTTCCTGATCGAACAGCCTCACTTGTGTTGCT 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 TCTGTGCCCAAGGACACCTTTAGCCTCATTTCCTGATCGAACAGCCTCACTTGTGTTGCT 120

Qy        121 GTCAGTGCCAGTAGGGCAGGCAGGAATGCAGCAGAGAGGACTCGCCATCGTGGCCTTGGC 180
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        121 GTCAGTGCCAGTAGGGCAGGCAGGAATGCAGCAGAGAGGACTCGCCATCGTGGCCTTGGC 180

Qy        181 TGTCTGTGCGGCCCTACATGCCTCAGAAGCCATACTTCCCATTGCCTCCAGCTGTTGCAC 240
```

```
Db        181 TGTCTGTGCGGCCCTACATGCCTCAGAAGCCATACTTCCCATTGCCTCCAGCTGTTGCAC 240
Qy        241 GGAGGTTTCACATCATATTTCCAGAAGGCTCCTGGAAAGAGTGAATATGTGTCGCATCCA 300
Db        241 GGAGGTTTCACATCATATTTCCAGAAGGCTCCTGGAAAGAGTGAATATGTGTCGCATCCA 300
Qy        301 GAGAGCTGATGGGGATTGTGACTTGGCTGCTGTCATCCTTCATGTCAAGCGCAGAAGAAT 360
Db        301 GAGAGCTGATGGGGATTGTGACTTGGCTGCTGTCATCCTTCATGTCAAGCGCAGAAGAAT 360
Qy        361 CTGTGTCAGCCCGCACAACCATACTGTTAAGCAGTGGATGAAAGTGCAAGCTGCCAAGAA 420
Db        361 CTGTGTCAGCCCGCACAACCATACTGTTAAGCAGTGGATGAAAGTGCAAGCTGCCAAGAA 420
Qy        421 AAATGGTAAAGGAAATGTTTGCCACAGGAAGAAACACCATGGCAAGAGGAACAGTAACAG 480
Db        421 AAATGGTAAAGGAAATGTTTGCCACAGGAAGAAACACCATGGCAAGAGGAACAGTAACAG 480
Qy        481 GGCACATCAGGGGAAACACGAAACATACGGCCATAAAACTCCTTATTAGAGAGTCTACAG 540
Db        481 GGCACATCAGGGGAAACACGAAACATACGGCCATAAAACTCCTTATTAGAGAGTCTACAG 540
Qy        541 ATAAATCTACAGAGACAATTCCTCAAGTGGACTTGGCCATGATTGGTTGTAAGTTTATCA 600
Db        541 ATAAATCTACAGAGACAATTCCTCAAGTGGACTTGGCCATGATTGGTTGTAAGTTTATCA 600
Qy        601 TCTGAATTCTCCTTATTGTAGACAACAGAACAAAACAAAATATTGGTTTTTAAAAAATGA 660
Db        601 TCTGAATTCTCCTTATTGTAGACAACAGAACAAAACAAAATATTGGTTTTTAAAAAATGA 660
Qy        661 ACAATTGTGCGGTATGCAAATGTAGCCAATAATATACTCAAACTCCTGGGCTCAAGCGAT 720
Db        661 ACAATTGTGCGGTATGCAAATGTAGCCAATAATATACTCAAACTCCTGGGCTCAAGCGAT 720
Qy        721 CCTCCCACCTTAGCCTCCCAAAGTACTGGGATTATAGGTGTGAGCCACAGTGCCTGGCCT 780
Db        721 CCTCCCACCTTAGCCTCCCAAAGTACTGGGATTATAGGTGTGAGCCACAGTGCCTGGCCT 780
Qy        781 AATTATTTTCTTGTGATCAAATTCAGGTTTAATGTTTTTGGTTAAGAATTTCCTACGTGA 840
Db        781 AATTATTTTCTTGTGATCAAATTCAGGTTTAATGTTTTTGGTTAAGAATTTCCTACGTGA 840
Qy        841 ATTCGTGTACTTATTTTGTCATTTAGAGTTCATAAATATTAGGGTTTATTTTCTAAATAG 900
Db        841 ATTCGTGTACTTATTTTGTCATTTAGAGTTCATAAATATTAGGGTTTATTTTCTAAATAG 900
Qy        901 AATAGTTTAAACTAAATATAACTTCAAAACGTCTAGTTTGAGTAGCTACCGTTGTTTGGA 960
Db        901 AATAGTTTAAACTAAATATAACTTCAAAACGTCTAGTTTGAGTAGCTACCGTTGTTTGGA 960
Qy        961 TTGAAATTTTCTGATACTGAAAAGAACAAAAAGCCTGCCTTTCTGCCCAGAACCTTTTGC 1020
Db        961 TTGAAATTTTCTGATACTGAAAAGAACAAAAAGCCTGCCTTTCTGCCCAGAACCTTTTGC 1020
Qy       1021 CTCCCCCAGTCAGTTCTTGGAGCAGCACTAGTTAGGGGCCCAGAGTTCGGCCTTCTGTGT 1080
Db       1021 CTCCCCCAGTCAGTTCTTGGAGCAGCACTAGTTAGGGGCCCAGAGTTCGGCCTTCTGTGT 1080
Qy       1081 GGTGATTTTACGCTCTGCCTAAACAAGGAGCCTACATCTTTTAGCTCCTATTCCACCCTT 1140
Db       1081 GGTGATTTTACGCTCTGCCTAAACAAGGAGCCTACATCTTTTAGCTCCTATTCCACCCTT 1140
Qy       1141 CTCACACGTTTTTGTTGTTGTTTGGTTGTTTTTTTTTGAGACAGAGTCTCACTCTGTTGC 1200
Db       1141 CTCACACGTTTTTGTTGTTGTTTGGTTGTTTTTTTTTGAGACAGAGTCTCACTCTGTTGC 1200
Qy       1201 CCAGGCTGGAGTGCAGTGGCACAATCTCGGCTCATTGCAACCTCCGCCTCCCGCGTTCAA 1260
Db       1201 CCAGGCTGGAGTGCAGTGGCACAATCTCGGCTCATTGCAACCTCCGCCTCCCGCGTTCAA 1260
Qy       1261 GTGATTCTCTTGCCTCAGCCTCCCAAGTAACTGATATTACAGGCGCCCAGCCACCACACC 1320
```

```
Db       1261 GTGATTCTCTTGCCTCAGCCTCCCAAGTAACTGATATTACAGGCGCCCAGCCACCACACC 1320
Qy       1321 CCGCTGATTTTTGTATTTTTAGTAGAGACGGGGTTTTCCCACGTTGGCCGGGCTGGTCTC 1380
Db       1321 CCGCTGATTTTTGTATTTTTAGTAGAGACGGGGTTTTCCCACGTTGGCCGGGCTGGTCTC 1380
Qy       1381 AAACTCTTGACCTCAAGTGAACCACCCGCCTGTGCCTCCCAAAGTGCTGGAATTACCAGC 1440
Db       1381 AAACTCTTGACCTCAAGTGAACCACCCGCCTGTGCCTCCCAAAGTGCTGGAATTACCAGC 1440
Qy       1441 GTGAGCCACCATGCCGGGCTCACACGTTTGAGTTGATACCATTGTGCCATTCCTCTTTTG 1500
Db       1441 GTGAGCCACCATGCCGGGCTCACACGTTTGAGTTGATACCATTGTGCCATTCCTCTTTTG 1500
Qy       1501 GCCTCTTTTTTGTCCATAGAGGCTTCAAGATAGATAGGTAAGAGCCCAGTAGTGTTCATA 1560
Db       1501 GCCTCTTTTTTGTCCATAGAGGCTTCAAGATAGATAGGTAAGAGCCCAGTAGTGTTCATA 1560
Qy       1561 AGAAGCCAATAGAGAGCAGGAGCCACTTTATCAGGTGGCAGGTGTCCCGGGCCTCCCTGC 1620
Db       1561 AGAAGCCAATAGAGAGCAGGAGCCACTTTATCAGGTGGCAGGTGTCCCGGGCCTCCCTGC 1620
Qy       1621 TGGCTAGTCCCAAGCGGTGGTGTTGCCAGGATGTCTTGGAGGTGATAATGGGACACACAG 1680
Db       1621 TGGCTAGTCCCAAGCGGTGGTGTTGCCAGGATGTCTTGGAGGTGATAATGGGACACACAG 1680
Qy       1681 AGGCACTGAGTCTCCATAGGTTAAAATGCCACCAAAACTGGCCTTTGCCTAATATCCCTC 1740
Db       1681 AGGCACTGAGTCTCCATAGGTTAAAATGCCACCAAAACTGGCCTTTGCCTAATATCCCTC 1740
Qy       1741 ATTGACTATTTAGCATTTAATTTATTTATTTTCCTGACATTTCTGCAAGCTTTGTATTTA 1800
Db       1741 ATTGACTATTTAGCATTTAATTTATTTATTTTCCTGACATTTCTGCAAGCTTTGTATTTA 1800
Qy       1801 TATTTCCACTTTATAGATGAGGAAATTTGAGGCTCTTAGAGGTAAAATGACTTGCCCAGG 1860
Db       1801 TATTTCCACTTTATAGATGAGGAAATTTGAGGCTCTTAGAGGTAAAATGACTTGCCCAGG 1860
Qy       1861 TCACACAGGAAGTGGCAGAGACAAGCTTTTTAAATAAGAAAAAATTAATAAAATATAATA 1920
Db       1861 TCACACAGGAAGTGGCAGAGACAAGCTTTTTAAATAAGAAAAAATTAATAAAATATAATA 1920
Qy       1921 TGAGAGTAACTTAAAATATTAATAAACCACAATTTTAAATTAATTAACCGTGATAACCAA 1980
Db       1921 TGAGAGTAACTTAAAATATTAATAAACCACAATTTTAAATTAATTAACCGTGATAACCAA 1980
Qy       1981 CATTAATAAAAGTTAAGATACCAAAAAAAAAAAAAAA 2017
Db       1981 CATTAATAAAAGTTAAGATACCAAAAAAAAAAAAAAA 2017
```

RESULT 2
US-09-834-795A-6
; Sequence 6, Application US/09834795A
; Patent No. US20020076710A1
; GENERAL INFORMATION:
; APPLICANT: Lawrence, Papsidero
; APPLICANT: Lyn, Dyster
; APPLICANT: Jana, Frustaci
; TITLE OF INVENTION: Detection and Treatment of Breast Cancer
; FILE REFERENCE: 3380/1I127-US3
; CURRENT APPLICATION NUMBER: US/09/834,795A
; CURRENT FILING DATE: 2001-04-12
; PRIOR APPLICATION NUMBER: 09/146,580
; PRIOR FILING DATE: 1998-09-03
; PRIOR APPLICATION NUMBER: 60/071,899
; PRIOR FILING DATE: 1998-01-20
; PRIOR APPLICATION NUMBER: 60/092,155
; PRIOR FILING DATE: 1998-07-09
; NUMBER OF SEQ ID NOS: 35
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 6
; LENGTH: 3117

```
;   TYPE: DNA
;   ORGANISM: Homo sapiens
;   FEATURE:
;   NAME/KEY: unsure
;   LOCATION: (1)..(3117)
;   OTHER INFORMATION: n at any position in the sequence represents a or g or c or t/u
;   NAME/KEY: unsure
;   LOCATION: (1)..(3117)
;   OTHER INFORMATION: y at any position in the sequence represents t/u or c
;   NAME/KEY: unsure
;   LOCATION: (1)..(3117)
;   OTHER INFORMATION: m at any position in the sequence represents a or c
;   NAME/KEY: unsure
;   LOCATION: (1)..(3117)
;   OTHER INFORMATION: k at any position in the sequence represents g or t/u
;   NAME/KEY: unsure
;   LOCATION: (1)..(3117)
;   OTHER INFORMATION: s at any position in the sequence represents g or c
;   NAME/KEY: unsure
;   LOCATION: (1)..(3117)
;   OTHER INFORMATION: w at any position in the sequence represents a or t/u
;   NAME/KEY: unsure
;   LOCATION: (1)..(3117)
;   OTHER INFORMATION: r at any position in the sequence represents g or a
US-09-834-795A-6

  Query Match             51.3%;  Score 1035.2;  DB 9;  Length 3117;
  Best Local Similarity   86.5%;  Pred. No. 1.3e-231;
  Matches 1172;  Conservative   73;  Mismatches   92;  Indels   18;  Gaps   15;

Qy        671 GGTATGCAAATGTAGCCAATAATATACTCAAACTCCTGGGCTCAAGCGATCCTCCCACCT 730
              |||.|    |||| ||| |   |   ||||||||||||||||||||||||||||||||||
Db       1669 GGTCTCACTATGTTGCCCAGGTTGATCTCAAACTCCTGGGCTCAAGCGATCCTCCCACCT 1728

Qy        731 TAGCCTCCCAAAGTACTGGGATTATAGGTGTGAGCCACAGTGCCTGGCCTAATTATTTTC 790
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1729 TAGCCTCCCAAAGTACTGGGATTATAGGTGTGAGCCACAGTGCCTGGCCTAATTATTTTC 1788

Qy        791 TTGTGATCAAATTCAGGTTTAATGTTTTTGGTTAAGAATTTCCTACGTGAATTCGTGTAC 850
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1789 TTGTGATCAAATTCAGGTTTAATGTTTTTGGTTAAGAATTTCCTACGTGAATTCGTGTAC 1848

Qy        851 TTATTTTGTCATTTAGAGTTCATAAATATTAGGGTTTATTTTCTAAATAGAATAGTTTAA 910
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1849 TTATTTTGTCATTTAGAGTTCATAAATATTAGGGTTTATTTTCTAAATAGAATAGTTTAA 1908

Qy        911 ACTAAATATAACTTCAAAACGTCTAGTTTGAGTAGCTACCGTTGTTTGGATTGAAATTTT 970
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1909 ACTAAATATAACTTCAAAACGTCTAGTTTGAGTAGCTACCGTTGTTTGGATTGAAATTTT 1968

Qy        971 CTGATACTGAAAAGAACAAAAAGCCTGCCTTTCTGCCCAGAACCTTTTGCCTCCCCCAGT 1030
              |||||||||||||||||||||||||||||||||||||||| |||:  ||||:|||||||||
Db       1969 CTGATACTGAAAAGAACAAAAAGCCTGCCTTTCTGCCCANAACSNNTTGCYTCCCCCAGT 2028

Qy       1031 CAGTTCTTGGAGCAGCACTAGTTAGGGGCCCAGAGTTCGGCCTTCTGTGTGGTGATTTTA 1090
              ||||||||| |||| |||||||||| |||||||| ||||||  |:||||||||||||||
Db       2029 NAGTTCTTGGNGCAGNACTAGTTAGGGNCCCAGAGTTNGGCCTTNNGKGTGGTGATTTTA 2088

Qy       1091 CGCTCTGCCTAAACAAGGAGCCTACATCTTTTAGCTCCTATTCCACCCTTCTCACACGTT 1150
              |:|||||||||||||| || :||||:|||||||||||||||||:|||| |:|:|||
Db       2089 NGYTCTGCCTAAACAAGGNGCNWACATYTTTTAGCTCCTATTCCACCYTTCTNAMAMGTT 2148

Qy       1151 TTTGTTGTTGTTTGGTTGTTTTTTTTTGAGACAGAGTCTCACTCTG-TTGCCCAGGCTGG 1209
              ||||||||:|||||  ||| |||||||:|||||::| | |:|||| |||||||:|||||
Db       2149 TTTGTTGTKGTTTGNTTG-TTTTTTTKGAGACAGRRTNTNAYTCTGTTTGCCCARGCTGG 2207

Qy       1210 AG-TGCAGTGGCACAATCTCGGCT-CATTGCAACCTCCGCCTCCCG--CGTTCAAGTGAT 1265
              |: ||||||||||||||:| ||:| |||||||||:|| ||:|||::  |||||||:||||
Db       2208 ARTTGCAGTGGCACAATYTNGGYTNCATTGCAACYTCNGCYTCCSSGCCGTTCAAKTGAT 2267

Qy       1266 TCTCTTGCCTCAGCCT-CCCAAGTAACTGATATTACAGGCGCCCAGCCACCACACCCCGC 1324
              ::|||||:|||||:| |||||||| |||||||||| ||||||||||:||||||
Db       2268 YYTCTTGCYTCAGCYTCCCCAAGTAANTGATATTACAGGNGCCCAGCCACCAMACCCCGN 2327

Qy       1325 TGATTTTTGTATTTTTAGTAGAGACGGGGTTTTCCCACGTTGGCCGGGCTGGTCTCAAAC 1384
              |||:|||||||||||||:||:|:|::|||||||||| | ||||| |||||||||| ||
Db       2328 TGAWTTTTGTATTTTTARTARARAMRGGGTTTTCCCGCNTTGGCNGGGCTGGTCTCNAAN 2387

Qy       1385 T-CTTGACCTCAAGTGAACCACCCGCCTGTGCCTCCCAAAGTGCTGGAATTACCAGCG-T 1442
              | |||||:||| |:|||||||||||||||||||:|||||| |||||||||||||| || |
Db       2388 TCCTTGAMCTCNAKTGAACCACCCGCCTGTGCCYCCCAAANTGCTGGAATTACCANCGTT 2447

Qy       1443 GAGCCACCATGCCGGGCTCACACGTTTGAG-TTGATACCATTGTGCCATTCCTCTTTTGG 1501
              || |||||||||||||:|||||||||||: |||| |||||||| ||||||||||||||
Db       2448 GANCCACCATGCCGGGCYCACACGTTTGARTTTGANACCATTGTNCCATTCCTCTTTTGG 2507

Qy       1502 CCTCTTTTTTGTCCATAGAGGCTTCAAGATAGATAGGTAAGAGCCCAGTAGT-GTTCATA 1560
              |||:|||||| |||||||  |||||||||||||| |||||:|||||||||| ||||:||
Db       2508 CCTYTTTTTTNTCCATAGNNGCTTCAAGATAGATANGTAAGRGCCCAGTAGTNGTTCWTA 2567

Qy       1561 AGAAGCCAATAGAGAGCAGGAGCCACTTTA--TCAGGTGGCAGGTGTCCCGGGCCTCCCT 1618
              :|||||  :||||::| |:|||:||| |||       | ||||||||||  |||:|||||
Db       2568 RGAAGCNMATAGRRANCRGGARCCANTTTNATCAGGTGGGCAGGTGTCCNNGGCYTCCCT 2627

Qy       1619 GCTGGCTAGTCCCAAGCGGTGGTGTTGCCAGGATGTCTTGGAGGTGATAATGGGACACAC 1678
              |||||:|  |||||||||||||||||||||:|| :| |||||:|||||||||| | ||
Db       2628 GCTGGYTNNTCCCAAGCGGTGGTGTTGCCARGANKTNTTGGARGTGATAATGGGANANAC 2687

Qy       1679 --AGAGGCACTGAGTCTCCATAGGTTAAAATGCCACCAAAACTGGCCTTT-GCCTAATAT 1735
                ||||:|||||: |  |||||| ||||||||||||||||||||||| |||||||||
Db       2688 CAGNAGGCMCTGAGTYNCNNTAGGTTNAAATGCCACCAAAACTGGCCTTTGGCCTAATAT 2747

Qy       1736 CCCTCATTGACTATTTAGCATTTAATTTATTTATTTTCCTGACATTTCTGCAAG-CTTTG 1794
              ||::| ||||:|| |||:|||||:|||||:|||| |||||||||| |||:|  |||||
Db       2748 CCYYCNTTGAMTANTTARCATTTAWTTTATTWATTTNCCTGACATTTNTGCMANCCTTTG 2807

Qy       1795 TATTTATATTTCCACTTTATAGATGAGGAAATTTGAGGCTCTTAGAGGTAAAATGACTTG 1854
              |:||| |||||||  || ||||:|:||:|||||||||| |:|||:|||||||||| |||
Db       2808 TWTTTNTATTTCCNCTNTATARAWGARGAAATTTGAGGNTYTTARAGGTAAAATGANTTG 2867

Qy       1855 CCCAGGT-CACACAGGAAGTGGCAGAGACAAGCTTTTTAAATAAGAAAAAATTAATAAAA 1913
              | | :||  ||:|||||||||||| :|:| || ||||||| || :|||||||||||||||
Db       2868 CNCNRGTNNACMCAGGAAGTGGCNRARANAANCTTTTTANATNMGAAAAAATTAATAAAA 2927

Qy       1914 TATAATATGAGAGTAACTTAAAATATTAATAAACCACAATTTTAAATTAATTAACCGTGA 1973
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2928 TATAATATGAGAGTAACTTAAAATATTAATAAACCACAATTTTAAATTAATTAACCGTGA 2987

Qy       1974 TAACCAACATTAATAAAAGTTAAGATACCAAAAAA 2008
              |||||||||||||||||||||||||||||||||| |
Db       2988 TAACCAACATTAATAAAAGTTAAGATACCAAAACA 3022


RESULT 3
US-09-834-794A-6
; Sequence 6, Application US/09834794A
; Publication No. US20030026777A1
; GENERAL INFORMATION:
;  APPLICANT: Lawrence, Papsidero
;  APPLICANT:  Lyn, Dyster
;  APPLICANT:  Jana, Frustaci
;  TITLE OF INVENTION: Detection and Treatment of Breast Cancer
;  FILE REFERENCE: 3380/1I127-US4
;  CURRENT APPLICATION NUMBER: US/09/834,794A
;  CURRENT FILING DATE:  2001-04-13
;  PRIOR APPLICATION NUMBER: 09/146,580
;  PRIOR FILING DATE: 1998-09-03
;  PRIOR APPLICATION NUMBER: 60/071,899
;  PRIOR FILING DATE: 1998-01-20
;  PRIOR APPLICATION NUMBER: 60/092,155
;  PRIOR FILING DATE: 1998-07-09
;  NUMBER OF SEQ ID NOS: 35
;  SOFTWARE: PatentIn version 3.0
; SEQ ID NO 6
;   LENGTH: 3117
;   TYPE: DNA
```

```
;   ORGANISM: Homo sapiens
;   FEATURE:
;   NAME/KEY: unsure
;   LOCATION: (1)..(3117)
;   OTHER INFORMATION: n at any position in the sequence represents a or g or c or t/u
;   NAME/KEY: unsure
;   LOCATION: (1)..(3117)
;   OTHER INFORMATION: y at any position in the sequence represents t/u or c
;   NAME/KEY: unsure
;   LOCATION: (1)..(3117)
;   OTHER INFORMATION: m at any position in the sequence represents a or c
;   NAME/KEY: unsure
;   LOCATION: (1)..(3117)
;   OTHER INFORMATION: k at any position in the sequence represents g or t/u
;   NAME/KEY: unsure
;   LOCATION: (1)..(3117)
;   OTHER INFORMATION: s at any position in the sequence represents g or c
;   NAME/KEY: unsure
;   LOCATION: (1)..(3117)
;   OTHER INFORMATION: w at any position in the sequence represents a or t/u
;   NAME/KEY: unsure
;   LOCATION: (1)..(3117)
;   OTHER INFORMATION: r at any position in the sequence represents g or a
US-09-834-794A-6

  Query Match            51.3%;  Score 1035.2;  DB 10;  Length 3117;
  Best Local Similarity  86.5%;  Pred. No. 1.3e-231;
  Matches 1172;  Conservative   73;  Mismatches   92;  Indels   18;  Gaps   15;

Qy        671 GGTATGCAAATGTAGCCAATAATATACTCAAACTCCTGGGCTCAAGCGATCCTCCCACCT 730
              |||:|    |||| ||| | |   |||||||||||||||||||||||||||||||||||
Db       1669 GGTCTCACTATGTTGCCCAGGTTGATCTCAAACTCCTGGGCTCAAGCGATCCTCCCACCT 1728

Qy        731 TAGCCTCCCAAAGTACTGGGATTATAGGTGTGAGCCACAGTGCCTGGCCTAATTATTTTC 790
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1729 TAGCCTCCCAAAGTACTGGGATTATAGGTGTGAGCCACAGTGCCTGGCCTAATTATTTTC 1788

Qy        791 TTGTGATCAAATTCAGGTTTAATGTTTTTGGTTAAGAATTTCCTACGTGAATTCGTGTAC 850
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1789 TTGTGATCAAATTCAGGTTTAATGTTTTTGGTTAAGAATTTCCTACGTGAATTCGTGTAC 1848

Qy        851 TTATTTTGTCATTTAGAGTTCATAAATATTAGGGTTTATTTTCTAAATAGAATAGTTTAA 910
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1849 TTATTTTGTCATTTAGAGTTCATAAATATTAGGGTTTATTTTCTAAATAGAATAGTTTAA 1908

Qy        911 ACTAAATATAACTTCAAAACGTCTAGTTTGAGTAGCTACCGTTGTTTGGATTGAAATTTT 970
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1909 ACTAAATATAACTTCAAAACGTCTAGTTTGAGTAGCTACCGTTGTTTGGATTGAAATTTT 1968

Qy        971 CTGATACTGAAAAGAACAAAAAGCCTGCCTTTCTGCCCAGAACCTTTTGCCTCCCCCAGT 1030
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1969 CTGATACTGAAAAGAACAAAAAGCCTGCCTTTCTGCCCANAACSNNTTGCYTCCCCCAGT 2028

Qy       1031 CAGTTCTTGGAGCAGCACTAGTTAGGGGCCCAGAGTTCGGCCTTCTGTGTGGTGATTTTA 1090
              |||||||||| |||| |||||||||| |||||||| |||||| |:|||||||||||||
Db       2029 NAGTTCTTGGNGCAGNACTAGTTAGGGNCCCAGAGTTNGGCCTTNNGKGTGGTGATTTTA 2088

Qy       1091 CGCTCTGCCTAAACAAGGAGCCTACATCTTTTAGCTCCTATTCCACCCTTCTCACACGTT 1150
              |:|||||||||||||||| || :||||:|||||||||||||||||||:|||| |:|:|||
Db       2089 NGYTCTGCCTAAACAAGGNGCNWACATYTTTTAGCTCCTATTCCACCYTTCTNAMAMGTT 2148

Qy       1151 TTTGTTGTTGTTTGGTTGTTTTTTTTTGAGACAGAGTCTCACTCTG-TTGCCCAGGCTGG 1209
              ||||||||:||||| ||| |||||||:|||||||::| | |:|||| |||||||:|||||
Db       2149 TTTGTTGTKGTTTGNTTG-TTTTTTTKGAGACAGRRTNTNAYTCTGTTTGCCCARGCTGG 2207

Qy       1210 AG-TGCAGTGGCACAATCTCGGCT-CATTGCAACCTCCGCCTCCCG--CGTTCAAGTGAT 1265
              |: |||||||||||||||:| ||:| |||||||||:|| ||:|||:: |||||||:||||
Db       2208 ARTTGCAGTGGCACAATYTNGGYTNCATTGCAACYTCNGCYTCCSSGCCGTTCAAKTGAT 2267

Qy       1266 TCTCTTGCCTCAGCCT-CCCAAGTAACTGATATTACAGGCGCCCAGCCACCACACCCCGC 1324
              ::|||||:|||||:| ||||||||| |||||||||||| ||||||||||||:||||||
Db       2268 YYTCTTGCYTCAGCYTCCCCAAGTAANTGATATTACAGGNGCCCAGCCACCAMACCCCGN 2327

Qy       1325 TGATTTTTGTATTTTTAGTAGAGACGGGGTTTTCCCACGTTGGCCGGGCTGGTCTCAAAC 1384
              |||:|||||||||||||:||:|:|::|||||||||| | ||||| |||||||||| ||
Db       2328 TGAWTTTTGTATTTTTARTARARAMRGGGTTTTCCCGCNTTGGCNGGGCTGGTCTCNAAN 2387

Qy       1385 T-CTTGACCTCAAGTGAACCACCCGCCTGTGCCTCCCAAAGTGCTGGAATTACCAGCG-T 1442
              | |||||:||| |:|||||||||||||||||||:|||||| |||||||||||||| || |
Db       2388 TCCTTGAMCTCNAKTGAACCACCCGCCTGTGCCYCCCAAANTGCTGGAATTACCANCGTT 2447

Qy       1443 GAGCCACCATGCCGGGCTCACACGTTTGAG-TTGATACCATTGTGCCATTCCTCTTTTGG 1501
              || |||||||||||||:|||||||||||: |||| |||||||| |||||||||||||||
Db       2448 GANCCACCATGCCGGGCYCACACGTTTGARTTTGANACCATTGTNCCATTCCTCTTTTGG 2507

Qy       1502 CCTCTTTTTTGTCCATAGAGGCTTCAAGATAGATAGGTAAGAGCCCAGTAGT-GTTCATA 1560
              |||:|||||| |||||||  |||||||||||||||| |||||:|||||||||| ||||:||
Db       2508 CCTYTTTTTTNTCCATAGNNGCTTCAAGATAGATANGTAAGRGCCCAGTAGTNGTTCWTA 2567

Qy       1561 AGAAGCCAATAGAGAGCAGGAGCCACTTTA--TCAGGTGGCAGGTGTCCCGGGCCTCCCT 1618
              :|||||:|||||::| |:|||:||| |||       |  |||||||||||  |||:|||||
Db       2568 RGAAGCNMATAGRRANCRGGARCCANTTTNATCAGGTGGGCAGGTGTCCNNGGCYTCCCT 2627

Qy       1619 GCTGGCTAGTCCCAAGCGGTGGTGTTGCCAGGATGTCTTGGAGGTGATAATGGGACACAC 1678
              |||||:|  |||||||||||||||||||||:|| :| |||||:|||||||||||| | ||
Db       2628 GCTGGYTNNTCCCAAGCGGTGGTGTTGCCARGANKTNTTGGARGTGATAATGGGANANAC 2687

Qy       1679 --AGAGGCACTGAGTCTCCATAGGTTAAAATGCCACCAAAACTGGCCTTT-GCCTAATAT 1735
                ||||:||||||: |  |||||| |||||||||||||||||||||| |||||||||
Db       2688 CAGNAGGCMCTGAGTYNCNNTAGGTTNAAATGCCACCAAAACTGGCCTTTGGCCTAATAT 2747

Qy       1736 CCCTCATTGACTATTTAGCATTTAATTTATTTATTTTCCTGACATTTCTGCAAG-CTTTG 1794
              ||::| ||||:|| |||:|||||:|||||:|||| |||||||||| |||:|  |||||
Db       2748 CCYYCNTTGAMTANTTARCATTTAWTTTATTWATTTNCCTGACATTTNTGCMANCCTTTG 2807

Qy       1795 TATTTATATTTCCACTTTATAGATGAGGAAATTTGAGGCTCTTAGAGGTAAAATGACTTG 1854
              |:||| |||||| || ||||:|:||:|||||||||| |:|||:|||||||||| |||
Db       2808 TWTTTNTATTTCCNCTNTATARAWGARGAAATTTGAGGNTYTTARAGGTAAAATGANTTG 2867

Qy       1855 CCCAGGT-CACACAGGAAGTGGCAGAGACAAGCTTTTTAAATAAGAAAAAATTAATAAAA 1913
              | | :||  ||:|||||||||||| :|:| || |||||| || :|||||||||||||||
Db       2868 CNCNRGTNNACMCAGGAAGTGGCNRARANAANCTTTTTANATNMGAAAAAATTAATAAAA 2927

Qy       1914 TATAATATGAGAGTAACTTAAAATATTAATAAACCACAATTTTAAATTAATTAACCGTGA 1973
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2928 TATAATATGAGAGTAACTTAAAATATTAATAAACCACAATTTTAAATTAATTAACCGTGA 2987

Qy       1974 TAACCAACATTAATAAAAGTTAAGATACCAAAAAA 2008
              |||||||||||||||||||||||||||||||| |
Db       2988 TAACCAACATTAATAAAAGTTAAGATACCAAAACA 3022


RESULT 4
US-10-106-698-1194
; Sequence 1194, Application US/10106698
; Publication No. US20030109690A1
; GENERAL INFORMATION:
;  APPLICANT: Ruben et al.
;  TITLE OF INVENTION: Colon and Colon Cancer Associated Polynucleotides and Polypeptide
;  FILE REFERENCE: PA005P1
;  CURRENT APPLICATION NUMBER: US/10/106,698
;  CURRENT FILING DATE:  2002-03-27
;  PRIOR APPLICATION NUMBER: PCT/US00/26524
;  PRIOR FILING DATE: 2000-09-28
;  PRIOR APPLICATION NUMBER: US 60/157,137
;  PRIOR FILING DATE: 1999-09-29
;  PRIOR APPLICATION NUMBER: US 60/163,280
;  PRIOR FILING DATE: 1999-11-03
;  NUMBER OF SEQ ID NOS: 8564
;  SOFTWARE: PatentIn Ver. 3.0
; SEQ ID NO 1194
;   LENGTH: 643
;   TYPE: DNA
;   ORGANISM: Homo sapiens
;   FEATURE:
;   NAME/KEY: misc_feature
```

```
;   LOCATION: (617)..(617)
;   OTHER INFORMATION: n equals a,t,g, or c
US-10-106-698-1194

  Query Match             26.9%;  Score 542.2;  DB 15;  Length 643;
  Best Local Similarity   99.1%;  Pred. No. 1.5e-116;
  Matches  544;  Conservative    1;  Mismatches    4;  Indels    0;  Gaps    0;

Qy       1460 TCACACGTTTGAGTTGATACCATTGTGCCATTCCTCTTTTGGCCTCTTTTTTGTCCATAG 1519
             | |||||||| ||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 TGACACGTTTAAGTTGATACCATTGTGCCATTCCTCTTTTGGCCTCTTTTTTGTCCATAG 60

Qy       1520 AGGCTTCAAGATAGATAGGTAAGAGCCCAGTAGTGTTCATAAGAAGCCAATAGAGAGCAG 1579
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 AGGCTTCAAGATAGATAGGTAAGAGCCCAGTAGTGTTCATAAGAAGCCAATAGAGAGCAG 120

Qy       1580 GAGCCACTTTATCAGGTGGCAGGTGTCCCGGGCCTCCCTGCTGGCTAGTCCCAAGCGGTG 1639
             |||||||||||||||||||||||||| ||||||||||||||||||||||||||||||||||
Db        121 GAGCCACTTTATCAGGTGGCAGGTGTCCTGGGCCTCCCTGCTGGCTAGTCCCAAGCGGTG 180

Qy       1640 GTGTTGCCAGGATGTCTTGGAGGTGATAATGGGACACACAGAGGCACTGAGTCTCCATAG 1699
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        181 GTGTTGCCAGGATGTCTTGGAGGTGATAATGGGACACACAGAGGCACTGAGTCTCCATAG 240

Qy       1700 GTTAAAATGCCACCAAAACTGGCCTTTGCCTAATATCCCTCATTGACTATTTAGCATTTA 1759
             ||||||||||||||||||||||||||||||||||||||||||||||||||||:|||||||||
Db        241 GTTAAAATGCCACCAAAACTGGCCTTTGCCTAATATCCCTCATTGACTATTTRGCATTTA 300

Qy       1760 ATTTATTTATTTTCCTGACATTTCTGCAAGCTTTGTATTTATATTTCCACTTTATAGATG 1819
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        301 ATTTATTTATTTTCCTGACATTTCTGCAAGCTTTGTATTTATATTTCCACTTTATAGATG 360

Qy       1820 AGGAAATTTGAGGCTCTTAGAGGTAAAATGACTTGCCCAGGTCACACAGGAAGTGGCAGA 1879
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        361 AGGAAATTTGAGGCTCTTAGAGGTAAAATGACTTGCCCAGGTCACACAGGAAGTGGCAGA 420

Qy       1880 GACAAGCTTTTTAAATAAGAAAAAATTAATAAAATATAATATGAGAGTAACTTAAAATAT 1939
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        421 GACAAGCTTTTTAAATAAGAAAAAATTAATAAAATATAATATGAGAGTAACTTAAAATAT 480

Qy       1940 TAATAAACCACAATTTTAAATTAATTAACCGTGATAACCAACATTAATAAAAGTTAAGAT 1999
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        481 TAATAAACCACAATTTTAAATTAATTAACCGTGATAACCAACATTAATAAAAGTTAAGAT 540

Qy       2000 ACCAAAAAA 2008
             ||||||| |
Db        541 ACCAAAACA 549


RESULT 5
US-10-296-115-255
; Sequence 255, Application US/10296115
; Publication No. US20040053248A1
; GENERAL INFORMATION:
;  APPLICANT: Hyseq Inc
;  TITLE OF INVENTION: No. US20040053248A1el Nucleic Acids and Polypeptides
;  FILE REFERENCE: 784PCT
;  CURRENT APPLICATION NUMBER: US/10/296,115
;  CURRENT FILING DATE:  2002-11-18
;  PRIOR APPLICATION NUMBER: US09/488,725
;  PRIOR FILING DATE: 2000-01-21
;  PRIOR APPLICATION NUMBER: US09/552,317
;  PRIOR FILING DATE: 2000-04-25
;  NUMBER OF SEQ ID NOS: 1478
; SEQ ID NO 255
;   LENGTH: 698
;   TYPE: DNA
;   ORGANISM: Homo sapiens
US-10-296-115-255

  Query Match             24.9%;  Score 501.8;  DB 13;  Length 698;
  Best Local Similarity   99.6%;  Pred. No. 4.4e-107;
  Matches  503;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy         84 CCTCATTTCCTGATCGAACAGCCTCACTTGTGTTGCTGTCAGTGCCAGTAGGGCAGGCAG 143
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 CCTCATTTCCTGATCGAACAGCCTCACTTGTGTTGCTGTCAGTGCCAGTAGGGCAGGCAG 60

Qy        144 GAATGCAGCAGAGAGGACTCGCCATCGTGGCCTTGGCTGTCTGTGCGGCCCTACATGCCT 203
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 GAATGCAGCAGAGAGGACTCGCCATCGTGGCCTTGGCTGTCTGTGCGGCCCTACATGCCT 120

Qy        204 CAGAAGCCATACTTCCCATTGCCTCCAGCTGTTGCACGGAGGTTTCACATCATATTTCCA 263
             || ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        121 CACCAGCCATACTTCCCATTGCCTCCAGCTGTTGCACGGAGGTTTCACATCATATTTCCA 180

Qy        264 GAAGGCTCCTGGAAAGAGTGAATATGTGTCGCATCCAGAGAGCTGATGGGGATTGTGACT 323
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        181 GAAGGCTCCTGGAAAGAGTGAATATGTGTCGCATCCAGAGAGCTGATGGGGATTGTGACT 240

Qy        324 TGGCTGCTGTCATCCTTCATGTCAAGCGCAGAAGAATCTGTGTCAGCCCGCACAACCATA 383
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        241 TGGCTGCTGTCATCCTTCATGTCAAGCGCAGAAGAATCTGTGTCAGCCCGCACAACCATA 300

Qy        384 CTGTTAAGCAGTGGATGAAAGTGCAAGCTGCCAAGAAAAATGGTAAAGGAAATGTTTGCC 443
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        301 CTGTTAAGCAGTGGATGAAAGTGCAAGCTGCCAAGAAAAATGGTAAAGGAAATGTTTGCC 360

Qy        444 ACAGGAAGAAACACCATGGCAAGAGGAACAGTAACAGGGCACATCAGGGGAAACACGAAA 503
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        361 ACAGGAAGAAACACCATGGCAAGAGGAACAGTAACAGGGCACATCAGGGGAAACACGAAA 420

Qy        504 CATACGGCCATAAAACTCCTTATTAGAGAGTCTACAGATAAATCTACAGAGACAATTCCT 563
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        421 CATACGGCCATAAAACTCCTTATTAGAGAGTCTACAGATAAATCTACAGAGACAATTCCT 480

Qy        564 CAAGTGGACTTGGCCATGATTGGTT 588
             |||||||||||||||||||||||||
Db        481 CAAGTGGACTTGGCCATGATTGGTT 505


RESULT 6
US-09-898-751A-5
; Sequence 5, Application US/09898751A
; Patent No. US20020160024A1
; GENERAL INFORMATION:
;  APPLICANT: Oldham, Elizabeth R.
;  APPLICANT:  Soto, Hortensia
;  APPLICANT:  Liu, Ying
;  APPLICANT:  Hudak, Susan A.
;  APPLICANT:  Homey, Bernhard
;  APPLICANT:  Morales, Janine M.
;  APPLICANT:  Kellerman, Sirid-Aimee
;  APPLICANT:  McEvoy, Leslie M.
;  APPLICANT:  Bowman, Edward P.
;  APPLICANT:  Zlotnik, Albert
;  TITLE OF INVENTION: CHEMOKINE AND RECEPTOR USES; COMPOSITIONS; METHODS
;  FILE REFERENCE: DX0882XK
;  CURRENT APPLICATION NUMBER: US/09/898,751A
;  CURRENT FILING DATE:  2001-07-02
;  PRIOR APPLICATION NUMBER: US09/471,549
;  PRIOR FILING DATE: 1999-12-23
;  PRIOR APPLICATION NUMBER: US60/136,570
;  PRIOR FILING DATE: 1999-05-27
;  PRIOR APPLICATION NUMBER: US60/113,858
;  PRIOR FILING DATE: 1998-12-24
;  NUMBER OF SEQ ID NOS: 16
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 5
;   LENGTH: 731
;   TYPE: DNA
;   ORGANISM: Homo sapiens
;   FEATURE:
;   NAME/KEY: CDS
;   LOCATION: (56)..(436)
;   OTHER INFORMATION:
```

```
;   NAME/KEY: mat_peptide
;   LOCATION: (122)..()
;   OTHER INFORMATION:
;   NAME/KEY: misc_feature
;   LOCATION: (529)..(529)
;   OTHER INFORMATION: unknown amino; may be "A", "C", or "G"
US-09-898-751A-5

  Query Match             24.7%;  Score 498;  DB 9;  Length 731;
  Best Local Similarity   100.0%;  Pred. No. 3.5e-106;
  Matches  498;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy         93 CTGATCGAACAGCCTCACTTGTGTTGCTGTCAGTGCCAGTAGGGCAGGCAGGAATGCAGC 152
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          3 CTGATCGAACAGCCTCACTTGTGTTGCTGTCAGTGCCAGTAGGGCAGGCAGGAATGCAGC 62

Qy        153 AGAGAGGACTCGCCATCGTGGCCTTGGCTGTCTGTGCGGCCCTACATGCCTCAGAAGCCA 212
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         63 AGAGAGGACTCGCCATCGTGGCCTTGGCTGTCTGTGCGGCCCTACATGCCTCAGAAGCCA 122

Qy        213 TACTTCCCATTGCCTCCAGCTGTTGCACGGAGGTTTCACATCATATTTCCAGAAGGCTCC 272
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        123 TACTTCCCATTGCCTCCAGCTGTTGCACGGAGGTTTCACATCATATTTCCAGAAGGCTCC 182

Qy        273 TGGAAAGAGTGAATATGTGTCGCATCCAGAGAGCTGATGGGGATTGTGACTTGGCTGCTG 332
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        183 TGGAAAGAGTGAATATGTGTCGCATCCAGAGAGCTGATGGGGATTGTGACTTGGCTGCTG 242

Qy        333 TCATCCTTCATGTCAAGCGCAGAAGAATCTGTGTCAGCCCGCACAACCATACTGTTAAGC 392
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        243 TCATCCTTCATGTCAAGCGCAGAAGAATCTGTGTCAGCCCGCACAACCATACTGTTAAGC 302

Qy        393 AGTGGATGAAAGTGCAAGCTGCCAAGAAAAATGGTAAAGGAAATGTTTGCCACAGGAAGA 452
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        303 AGTGGATGAAAGTGCAAGCTGCCAAGAAAAATGGTAAAGGAAATGTTTGCCACAGGAAGA 362

Qy        453 AACACCATGGCAAGAGGAACAGTAACAGGGCACATCAGGGGAAACACGAAACATACGGCC 512
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        363 AACACCATGGCAAGAGGAACAGTAACAGGGCACATCAGGGGAAACACGAAACATACGGCC 422

Qy        513 ATAAAACTCCTTATTAGAGAGTCTACAGATAAATCTACAGAGACAATTCCTCAAGTGGAC 572
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        423 ATAAAACTCCTTATTAGAGAGTCTACAGATAAATCTACAGAGACAATTCCTCAAGTGGAC 482

Qy        573 TTGGCCATGATTGGTTGT 590
              ||||||||||||||||||
Db        483 TTGGCCATGATTGGTTGT 500


RESULT 7
US-10-146-496-1
; Sequence 1, Application US/10146496
; Publication No. US20030031646A1
;   GENERAL INFORMATION:
;        APPLICANT: Vicari, Alain
;                   Morales, Janine M.
;                   Hedrick, Joseph A.
;                   Zlotnik, Albert
;        TITLE OF INVENTION: Mammalian Chemokines
;        NUMBER OF SEQUENCES: 12
;        CORRESPONDENCE ADDRESS:
;             ADDRESSEE: DNAX Research Institute
;             STREET: 901 California Avenue
;             CITY: Palo Alto
;             STATE: California
;             COUNTRY: USA
;             ZIP: 94304-1104
;        COMPUTER READABLE FORM:
;             MEDIUM TYPE: Floppy disk
;             COMPUTER: IBM PC compatible
;             OPERATING SYSTEM: PC-DOS/MS-DOS
;             SOFTWARE: PatentIn Release #1.0, Version #1.30
;        CURRENT APPLICATION DATA:
;             APPLICATION NUMBER: US/10/146,496
;             FILING DATE: 15-May-2002
;             CLASSIFICATION: <Unknown>
;        PRIOR APPLICATION DATA:
;             APPLICATION NUMBER: US/08/978,964A
;             FILING DATE: 26-NOV-1997
;             APPLICATION NUMBER: US xx/xxx,xxx
;             FILING DATE: 24-OCT-1997
;        ATTORNEY/AGENT INFORMATION:
;             NAME: Ching, Edwin P.
;             REGISTRATION NUMBER: 34,090
;             REFERENCE/DOCKET NUMBER: DX0684K1
;        TELECOMMUNICATION INFORMATION:
;             TELEPHONE: (650)852-9196
;             TELEFAX: (650)496-1204
;   INFORMATION FOR SEQ ID NO: 1:
;        SEQUENCE CHARACTERISTICS:
;             LENGTH: 731 base pairs
;             TYPE: nucleic acid
;             STRANDEDNESS: single
;             TOPOLOGY: linear
;        MOLECULE TYPE: cDNA
;        FEATURE:
;             NAME/KEY:  CDS
;             LOCATION:  56..436
;        FEATURE:
;             NAME/KEY:  mat_peptide
;             LOCATION:  122..436
;        FEATURE:
;             NAME/KEY:  misc_feature
;             LOCATION:  565
;             OTHER INFORMATION:  /note= "nucleotides 565 and 581
;             designated M, may be A or C"
;        FEATURE:
;             NAME/KEY:  misc_feature
;             LOCATION:  712
;             OTHER INFORMATION:  /note= "nucleotide 712 designated
;             N, may be A, C, G, or T"
;        SEQUENCE DESCRIPTION: SEQ ID NO: 1:
US-10-146-496-1

  Query Match             24.7%;  Score 498;  DB 15;  Length 731;
  Best Local Similarity   100.0%;  Pred. No. 3.5e-106;
  Matches  498;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy         93 CTGATCGAACAGCCTCACTTGTGTTGCTGTCAGTGCCAGTAGGGCAGGCAGGAATGCAGC 152
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          3 CTGATCGAACAGCCTCACTTGTGTTGCTGTCAGTGCCAGTAGGGCAGGCAGGAATGCAGC 62

Qy        153 AGAGAGGACTCGCCATCGTGGCCTTGGCTGTCTGTGCGGCCCTACATGCCTCAGAAGCCA 212
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         63 AGAGAGGACTCGCCATCGTGGCCTTGGCTGTCTGTGCGGCCCTACATGCCTCAGAAGCCA 122

Qy        213 TACTTCCCATTGCCTCCAGCTGTTGCACGGAGGTTTCACATCATATTTCCAGAAGGCTCC 272
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        123 TACTTCCCATTGCCTCCAGCTGTTGCACGGAGGTTTCACATCATATTTCCAGAAGGCTCC 182

Qy        273 TGGAAAGAGTGAATATGTGTCGCATCCAGAGAGCTGATGGGGATTGTGACTTGGCTGCTG 332
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        183 TGGAAAGAGTGAATATGTGTCGCATCCAGAGAGCTGATGGGGATTGTGACTTGGCTGCTG 242

Qy        333 TCATCCTTCATGTCAAGCGCAGAAGAATCTGTGTCAGCCCGCACAACCATACTGTTAAGC 392
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        243 TCATCCTTCATGTCAAGCGCAGAAGAATCTGTGTCAGCCCGCACAACCATACTGTTAAGC 302

Qy        393 AGTGGATGAAAGTGCAAGCTGCCAAGAAAAATGGTAAAGGAAATGTTTGCCACAGGAAGA 452
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        303 AGTGGATGAAAGTGCAAGCTGCCAAGAAAAATGGTAAAGGAAATGTTTGCCACAGGAAGA 362

Qy        453 AACACCATGGCAAGAGGAACAGTAACAGGGCACATCAGGGGAAACACGAAACATACGGCC 512
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        363 AACACCATGGCAAGAGGAACAGTAACAGGGCACATCAGGGGAAACACGAAACATACGGCC 422
```

```
Qy        513 ATAAAACTCCTTATTAGAGAGTCTACAGATAAATCTACAGAGACAATTCCTCAAGTGGAC 572
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        423 ATAAAACTCCTTATTAGAGAGTCTACAGATAAATCTACAGAGACAATTCCTCAAGTGGAC 482

Qy        573 TTGGCCATGATTGGTTGT 590
              ||||||||||||||||||
Db        483 TTGGCCATGATTGGTTGT 500
```

RESULT 8
US-09-931-381A-1
; Sequence 1, Application US/09931381A
; Patent No. US20020137107A1
; GENERAL INFORMATION:
; APPLICANT: Butcher, Eugene C.
; APPLICANT: Kunkel, Eric J.
; APPLICANT: Pan, Junliang
; APPLICANT: Soler-Ferran, Dulce
; TITLE OF INVENTION: Method for Identifying Agents Which
; TITLE OF INVENTION: Modulate Chemokine "MEC"-Induced Functions of CCR3 and/or
; TITLE OF INVENTION: CCR10
; FILE REFERENCE: 1855.2010-003
; CURRENT APPLICATION NUMBER: US/09/931,381A
; CURRENT FILING DATE: 2001-08-15
; PRIOR APPLICATION NUMBER: U.S. 09/638,914
; PRIOR FILING DATE: 2000-08-15
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 768
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (53)...(436)
US-09-931-381A-1

Query Match 24.6%; Score 497; DB 9; Length 768;
Best Local Similarity 100.0%; Pred. No. 6.2e-106;
Matches 497; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
Qy         94 TGATCGAACAGCCTCACTTGTGTTGCTGTCAGTGCCAGTAGGGCAGGCAGGAATGCAGCA 153
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 TGATCGAACAGCCTCACTTGTGTTGCTGTCAGTGCCAGTAGGGCAGGCAGGAATGCAGCA 60

Qy        154 GAGAGGACTCGCCATCGTGGCCTTGGCTGTCTGTGCGGCCCTACATGCCTCAGAAGCCAT 213
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 GAGAGGACTCGCCATCGTGGCCTTGGCTGTCTGTGCGGCCCTACATGCCTCAGAAGCCAT 120

Qy        214 ACTTCCCATTGCCTCCAGCTGTTGCACGGAGGTTTCACATCATATTTCCAGAAGGCTCCT 273
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        121 ACTTCCCATTGCCTCCAGCTGTTGCACGGAGGTTTCACATCATATTTCCAGAAGGCTCCT 180

Qy        274 GGAAAGAGTGAATATGTGTCGCATCCAGAGAGCTGATGGGGATTGTGACTTGGCTGCTGT 333
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        181 GGAAAGAGTGAATATGTGTCGCATCCAGAGAGCTGATGGGGATTGTGACTTGGCTGCTGT 240

Qy        334 CATCCTTCATGTCAAGCGCAGAAGAATCTGTGTCAGCCCGCACAACCATACTGTTAAGCA 393
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        241 CATCCTTCATGTCAAGCGCAGAAGAATCTGTGTCAGCCCGCACAACCATACTGTTAAGCA 300

Qy        394 GTGGATGAAAGTGCAAGCTGCCAAGAAAAATGGTAAAGGAAATGTTTGCCACAGGAAGAA 453
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        301 GTGGATGAAAGTGCAAGCTGCCAAGAAAAATGGTAAAGGAAATGTTTGCCACAGGAAGAA 360

Qy        454 ACACCATGGCAAGAGGAACAGTAACAGGGCACATCAGGGGAAACACGAAACATACGGCCA 513
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        361 ACACCATGGCAAGAGGAACAGTAACAGGGCACATCAGGGGAAACACGAAACATACGGCCA 420

Qy        514 TAAAACTCCTTATTAGAGAGTCTACAGATAAATCTACAGAGACAATTCCTCAAGTGGACT 573
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        421 TAAAACTCCTTATTAGAGAGTCTACAGATAAATCTACAGAGACAATTCCTCAAGTGGACT 480
```

```
Qy        574 TGGCCATGATTGGTTGT 590
              ||||||||||||||||||
Db        481 TGGCCATGATTGGTTGT 497
```

RESULT 9
US-09-814-353-21771
; Sequence 21771, Application US/09814353
; Publication No. US20030165831A1
; GENERAL INFORMATION:
; APPLICANT: Lee, John
; APPLICANT: Thompson, Pamela
; APPLICANT: Lillie, James
; TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND METHODS FOR
; TITLE OF INVENTION: IDENTIFICATION, ASSESSMENT, PREVENTION, AND
; TITLE OF INVENTION: THERAPY OF OVARIAN CANCER
; FILE REFERENCE: MRI-006B
; CURRENT APPLICATION NUMBER: US/09/814,353
; CURRENT FILING DATE: 2001-03-21
; PRIOR APPLICATION NUMBER: US 60/191,031
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: US 60/207,124
; PRIOR FILING DATE: 2000-05-25
; PRIOR APPLICATION NUMBER: US 60/211,940
; PRIOR FILING DATE: 2000-06-15
; PRIOR APPLICATION NUMBER: US 60/216,820
; PRIOR FILING DATE: 2000-07-07
; PRIOR APPLICATION NUMBER: US 60/220,661
; PRIOR FILING DATE: 2000-07-25
; PRIOR APPLICATION NUMBER: US 60/257,672
; PRIOR FILING DATE: 2000-12-21
; NUMBER OF SEQ ID NOS: 22037
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 21771
; LENGTH: 904
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 1, 2, 3, 4, 5, 6, 7, 8, 9, 904
; OTHER INFORMATION: n = A,T,C or G
US-09-814-353-21771

Query Match 20.8%; Score 418.6; DB 10; Length 904;
Best Local Similarity 95.8%; Pred. No. 1.6e-87;
Matches 474; Conservative 0; Mismatches 14; Indels 7; Gaps 4;

```
Qy        201 CCTCAGAAGCCATACTTCCCATTGCCTCCAGCTGTTGCACGGAGGTTTCACATCATATTT 260
              |||||  ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         97 CCTCACCAGCCATACTTCCCATTGCCTCCAGCTGTTGCACGGAGGTTTCACATCATATTT 156

Qy        261 CCAGAAGGCTCCTGGAAAGAGTGAATATGTGTCGCATCCAGAGAGCTGATGGGGATTGTG 320
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        157 CCAGAAGGCTCCTGGAAAGAGTGAATATGTGTCGCATCCAGAGAGCTGATGGGGATTGTG 216

Qy        321 ACTTGGCTGCTGTCATCCTTCATGTCAAGCGCAGAAGAATCTGTGTCAGCCCGCACAACC 380
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        217 ACTTGGCTGCTGTCATCCTTCATGTCAAGCGCAGAAGAATCTGTGTCAGCCCGCACAACC 276

Qy        381 ATACTGTTAAGCAGTGGATGAAAGTGCAAGCTGCCAAGAAAAATGGTAAAGGAAATGTTT 440
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        277 ATACTGTTAAGCAGTGGATGAAAGTGCAAGCTGCCAAGAAAAATGGTAAAGGAAATGTTT 336

Qy        441 GCCACAGGAAGAAACACCATGGCAAGAGGAACAGTAACAGGGCACATCAGGGGAAACACG 500
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        337 GCCACAGGAAGAAACACCATGGCAAGAGGAACAGTAACAGGGCACATCAGGGGAAACACG 396

Qy        501 AAACATACGGCCATAAAACTCCTTATTAGAGAGTCTACAGATAAATCTACAGAGACAATT 560
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        397 AAACATACGGCCATAAAACTCCTTATTAGAGAGTCTACAGATAAATCTACAGAGACAATT 456

Qy        561 CCTCAAGTGGACTTGGCCATGATT--GGTTGTAAGTTTATCATCTGAATTCTCCTTATTG 618
              |||||||||||||||||||||||  | |  | ||||||||||||||||||||||||| ||
```

```
Db        457 CCTCAAGTGGACTTGGCCATGATTTGGTTGTAAGTTTTATCATCTGAATTCTCCTTA-TG 515

Qy        619 TAGACAACAGAACAAAACAAAATATTGGTTTTTAAAAAA---TGAACAATTGTG-CGGTA 674
              |||||||||||||||||||||||||||||||||||||||| ||      | |||||||| |||||
Db        516 GAGACAACAGAACAAAACAAAATATTGGTTTTTAAACAACATGAACCAATTGTGCCGGTA 575

Qy        675 TGCAAATGTAGCCAA 689
              ||||||||| |||||
Db        576 TGCAAATGTTGCCAA 590


RESULT 10
US-10-146-496-3
; Sequence 3, Application US/10146496
; Publication No. US20030031646A1
;   GENERAL INFORMATION:
;        APPLICANT: Vicari, Alain
;                   Morales, Janine M.
;                   Hedrick, Joseph A.
;                   Zlotnik, Albert
;        TITLE OF INVENTION: Mammalian Chemokines
;        NUMBER OF SEQUENCES: 12
;        CORRESPONDENCE ADDRESS:
;             ADDRESSEE: DNAX Research Institute
;             STREET: 901 California Avenue
;             CITY: Palo Alto
;             STATE: California
;             COUNTRY: USA
;             ZIP: 94304-1104
;        COMPUTER READABLE FORM:
;             MEDIUM TYPE: Floppy disk
;             COMPUTER: IBM PC compatible
;             OPERATING SYSTEM: PC-DOS/MS-DOS
;             SOFTWARE: PatentIn Release #1.0, Version #1.30
;        CURRENT APPLICATION DATA:
;             APPLICATION NUMBER: US/10/146,496
;             FILING DATE: 15-May-2002
;             CLASSIFICATION: <Unknown>
;        PRIOR APPLICATION DATA:
;             APPLICATION NUMBER: US/08/978,964A
;             FILING DATE: 26-NOV-1997
;             APPLICATION NUMBER: US xx/xxx,xxx
;             FILING DATE: 24-OCT-1997
;        ATTORNEY/AGENT INFORMATION:
;             NAME: Ching, Edwin P.
;             REGISTRATION NUMBER: 34,090
;             REFERENCE/DOCKET NUMBER: DX0684K1
;        TELECOMMUNICATION INFORMATION:
;             TELEPHONE: (650)852-9196
;             TELEFAX: (650)496-1204
;   INFORMATION FOR SEQ ID NO: 3:
;        SEQUENCE CHARACTERISTICS:
;             LENGTH: 496 base pairs
;             TYPE: nucleic acid
;             STRANDEDNESS: single
;             TOPOLOGY: linear
;        MOLECULE TYPE: cDNA
;        SEQUENCE DESCRIPTION: SEQ ID NO: 3:
US-10-146-496-3

  Query Match            18.3%;  Score 369.6;  DB 15;  Length 496;
  Best Local Similarity   85.0%;  Pred. No. 3.3e-76;
  Matches  420;  Conservative    0;  Mismatches   70;  Indels    4;  Gaps    2;

Qy         91 TCCTGATCGAACAGCCTCACTTGTGTTGCTGTCAGTGCCAGTAGGGCAGGCAGGAATGCA 150
              |||||||||||||||||||| |||||||||||||||||||||||||||||||||||||||
Db          1 TCCTGATCGAACAGCCTCACTTGTNTTGCTGTCAGTGCCAGTAGGGCAGGCAGGAATGCA 60

Qy        151 GCAGAGAGGACTCGCCATCGTGGCCTTGGCTGTCTGTGCGGCCCTACATGCCTCAGAAGC 210
              |||||||||||||||||||||||||||| |||||||||||||||||||||||| ||||
Db         61 GCAGAGAGGACTCGCCATCGTGGCCTTGGNTGTCTGTGCGGCCCTACATGCCTCAAAAGC 120

Qy        211 CATACTTCCCATTGCCTCCAGCTGTTGCACGGAGGTTTCACATCATATTTCCAGAAGGCT 270
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        121 CATACTTCCCATTGCCTCCAGCTGTTGCACGGAGGTTTCACATCATATTTCCAGAAGGCT 180

Qy        271 CCT-GGAAAGAGTGAATATGTGTCGCATCCAGAGAGCTGATGGGGATTGTGACTTGGCTG 329
              ||| ||||||||||||||||||||||||||||||||||||||||||||||||| |||||||||
Db        181 CCTGGGAAAGAGTGAATATGTGTCGCATCCAGAGAGCTGATGGGGATTGTNACTTGGCTG 240

Qy        330 CTGTCATCCTTCATGTCAAGCGCAGAAGAATCTGTGTCAGCCCGCACAACCATACTGTTA 389
              |||||||||||||||||||||||||||||||||||||| |||||||| ||||||||||||||||
Db        241 CTGTCATCCTTCATGTCAAGCGCAGAAGAATCTGTNTCAGCCCGNACAACCATACTGTTA 300

Qy        390 AGCAGTGGATGAAAGTGCAAGCTGCCAAGAAAAATGGTAAAGGAAATGTTTGCCACAGGA 449
              ||||||| |||||||||||| ||||| |||||||||||||||||||| ||| |||||||
Db        301 AGCAGTGGNTGAAAGTGCAAGTTGCCAGGAAAAATGGTAAAGGAAATTTTTTCCACAGGG 360

Qy        450 AG---AAACACCATGGCAAGAGGAACAGTAACAGGGCACATCAGGGGAAACACGAAACAT 506
              ||   | || |   |  | | |   |  || ||||| || |  |||||||   ||||  |
Db        361 NGGAAACACCCTGGGNAAGGGGANCCGTTACCAGGGNACTTNNGGGGAAANGGGAAANTT 420

Qy        507 ACGGCCATAAAACTCCTTATTAGAGAGTCTACAGATAAATCTACAGAGACAATTCCTCAA 566
              |||   |||| ||| | ||   | |  |  || ||||| |      |  ||||   | |
Db        421 NGGGCNTNAAAAATCCCTTTTNNGGGGNTTTAAGGTAAATTTTNNNGGGAAATTTTCCNA 480

Qy        567 GTGGACTTGGCCAT 580
              | ||  |||| |||
Db        481 GGGGNTTTGGNCAT 494


RESULT 11
US-09-964-824A-56/c
; Sequence 56, Application US/09964824A
; Patent No. US20020102531A1
; GENERAL INFORMATION:
;  APPLICANT: Horrigan, Stephen
;  TITLE OF INVENTION: Cancer Gene Determination and Therapeutic Screening Using Signat
;  TITLE OF INVENTION:  Sets
;  FILE REFERENCE: 689290-73
;  CURRENT APPLICATION NUMBER: US/09/964,824A
;  CURRENT FILING DATE:  2001-09-27
;  PRIOR APPLICATION NUMBER: US/60/236,033
;  PRIOR FILING DATE: 2000-09-28
;  PRIOR APPLICATION NUMBER: US/60/236,032
;  PRIOR FILING DATE: 2000-09-28
;  PRIOR APPLICATION NUMBER: US/60/236,028
;  PRIOR FILING DATE: 2000-09-28
;  NUMBER OF SEQ ID NOS: 583
;  SOFTWARE: PatentIn version 3.0
; SEQ ID NO 56
;   LENGTH: 472
;   TYPE: DNA
;   ORGANISM: Homo sapiens
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)...(472)
;   OTHER INFORMATION: n=a,t,g or c
US-09-964-824A-56

  Query Match            17.9%;  Score 361.8;  DB 9;  Length 472;
  Best Local Similarity   99.2%;  Pred. No. 2.2e-74;
  Matches  374;  Conservative    0;  Mismatches    2;  Indels    1;  Gaps    1;

Qy       1633 AGCGGTGGTGTTGCCAGGATGTCTTGGAGGTGATAATGGGACACACAGAGGCACTGAGTC 1692
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        471 AGCGGTGGTGTTGCCAGGATGTCTTGGAGGTGATAATGGGACACACAGAGGCACTGAGTC 412

Qy       1693 TCCATAGGTTAAAATG-CCACCAAAACTGGCCTTTGCCTAATATCCCTCATTGACTATTT 1751
              |||||||||||||||| |||||||||||||||||||||||||||||||||||||||||||
Db        411 TCCATAGGTTAAAATGCCCACCAAAACTGGCCTTTGCCTAATATCCCTCATTGACTATTT 352

Qy       1752 AGCATTTAATTTATTTATTTTCCTGACATTTCTGCAAGCTTTGTATTTATATTTCCACTT 1811
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        351 GGCATTTAATTTATTTATTTTCCTGACATTTCTGCAAGCTTTGTATTTATATTTCCACTT 292
```

```
Qy       1812 TATAGATGAGGAAATTTGAGGCTCTTAGAGGTAAAATGACTTGCCCAGGTCACACAGGAA 1871
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        291 TATAGATGAGGAAATTTGAGGCTCTTAGAGGTAAAATGACTTGCCCAGGTCACACAGGAA 232

Qy       1872 GTGGCAGAGACAAGCTTTTTAAATAAGAAAAAATTAATAAAATATAATATGAGAGTAACT 1931
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        231 GTGGCAGAGACAAGCTTTTTAAATAAGAAAAAATTAATAAAATATAATATGAGAGTAACT 172

Qy       1932 TAAAATATTAATAAACCACAATTTTAAATTAATTAACCGTGATAACCAACATTAATAAAA 1991
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        171 TAAAATATTAATAAACCACAATTTTAAATTAATTAACCGTGATAACCAACATTAATAAAA 112

Qy       1992 GTTAAGATACCAAAAAA 2008
             |||||||||||||||| |
Db        111 GTTAAGATACCAAAACA 95
```

RESULT 12
US-09-873-367C-175/c
; Sequence 175, Application US/09873367C
; Publication No. US20030165839A1
; GENERAL INFORMATION:
; APPLICANT: Young, Paul
; APPLICANT: Soppet, Daniel
; APPLICANT: Endress, Gregory
; APPLICANT: Augustus, Meena
; APPLICANT: Ebner, Reinhard
; APPLICANT: Carter, Kenneth
; TITLE OF INVENTION: Cancer Gene Determination and Therapeutic Screening Using
; TITLE OF INVENTION: Signature Gene Sets
; FILE REFERENCE: 689290-64
; CURRENT APPLICATION NUMBER: US/09/873,367C
; CURRENT FILING DATE: 2003-04-29
; PRIOR APPLICATION NUMBER: U.S. 60/236,891
; PRIOR FILING DATE: 2000-09-29
; PRIOR APPLICATION NUMBER: U.S. 60/236,842
; PRIOR FILING DATE: 2000-09-29
; PRIOR APPLICATION NUMBER: U.S. 60/244,867
; PRIOR FILING DATE: 2000-11-01
; PRIOR APPLICATION NUMBER: U.S. 60/245,084
; PRIOR FILING DATE: 2000-11-01
; NUMBER OF SEQ ID NOS: 1067
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 175
; LENGTH: 472
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(472)
; OTHER INFORMATION: n=a,t,g or c
US-09-873-367C-175

Query Match 17.9%; Score 361.8; DB 10; Length 472;
Best Local Similarity 99.2%; Pred. No. 2.2e-74;
Matches 374; Conservative 0; Mismatches 2; Indels 1; Gaps 1;

```
Qy       1633 AGCGGTGGTGTTGCCAGGATGTCTTGGAGGTGATAATGGGACACACAGAGGCACTGAGTC 1692
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         471 AGCGGTGGTGTTGCCAGGATGTCTTGGAGGTGATAATGGGACACACAGAGGCACTGAGTC 412

Qy       1693 TCCATAGGTTAAAATG-CCACCAAAACTGGCCTTTGCCTAATATCCCTCATTGACTATTT 1751
             |||||||||||||||| |||||||||||||||||||||||||||||||||||||||||||
Db         411 TCCATAGGTTAAAATGCCCACCAAAACTGGCCTTTGCCTAATATCCCTCATTGACTATTT 352

Qy       1752 AGCATTTAATTTATTTATTTTCCTGACATTTCTGCAAGCTTTGTATTTATATTTCCACTT 1811
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         351 GGCATTTAATTTATTTATTTTCCTGACATTTCTGCAAGCTTTGTATTTATATTTCCACTT 292

Qy       1812 TATAGATGAGGAAATTTGAGGCTCTTAGAGGTAAAATGACTTGCCCAGGTCACACAGGAA 1871
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         291 TATAGATGAGGAAATTTGAGGCTCTTAGAGGTAAAATGACTTGCCCAGGTCACACAGGAA 232
```

```
Qy       1872 GTGGCAGAGACAAGCTTTTTAAATAAGAAAAAATTAATAAAATATAATATGAGAGTAACT 1931
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         231 GTGGCAGAGACAAGCTTTTTAAATAAGAAAAAATTAATAAAATATAATATGAGAGTAACT 172

Qy       1932 TAAAATATTAATAAACCACAATTTTAAATTAATTAACCGTGATAACCAACATTAATAAAA 1991
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         171 TAAAATATTAATAAACCACAATTTTAAATTAATTAACCGTGATAACCAACATTAATAAAA 112

Qy       1992 GTTAAGATACCAAAAAA 2008
             |||||||||||||||| |
Db         111 GTTAAGATACCAAAACA 95
```

RESULT 13
US-10-029-386-4899/c
; Sequence 4899, Application US/10029386
; Publication No. US20030194704A1
; GENERAL INFORMATION:
; APPLICANT: Penn, Sharron G.
; APPLICANT: Rank, David R.
; APPLICANT: Hanzel, David K.
; TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR (
; TITLE OF INVENTION: EXPRESSION ANALYSIS TWO
; FILE REFERENCE: AEOMICA-X-2
; CURRENT APPLICATION NUMBER: US/10/029,386
; CURRENT FILING DATE: 2001-12-20
; NUMBER OF SEQ ID NOS: 34288
; SOFTWARE: Annomax Sequence Listing Engine vers. 1.1
; SEQ ID NO 4899
; LENGTH: 533
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: MAP TO AC025457.3
; OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 2.5
; OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 2
; OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 2.7
; OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 3.8
; OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 2.1
; OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 2
; OTHER INFORMATION: SWISSPROT HIT: Q9NRJ3, EVALUE 7.00e-35
; OTHER INFORMATION: NT HIT: AF266504.1, EVALUE 0.00e+00
; OTHER INFORMATION: EST_HUMAN HIT: BG530240.1, EVALUE 0.00e+00
US-10-029-386-4899

Query Match 17.7%; Score 356.4; DB 15; Length 533;
Best Local Similarity 97.1%; Pred. No. 4.3e-73;
Matches 363; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

```
Qy        316 TTGTGACTTGGCTGCTGTCATCCTTCATGTCAAGCGCAGAAGAATCTGTGTCAGCCCGCA 375
              || ||  |   | ||  || ||||||||||||||||||||||||||||||||||||||||||||
Db        374 TTTGCTTCCTTTTCTAACAGCCTTCATGTCAAGCGCAGAAGAATCTGTGTCAGCCCGCA 315

Qy        376 CAACCATACTGTTAAGCAGTGGATGAAAGTGCAAGCTGCCAAGAAAAAATGGTAAAGGAAA 435
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        314 CAACCATACTGTTAAGCAGTGGATGAAAGTGCAAGCTGCCAAGAAAAAATGGTAAAGGAAA 255

Qy        436 TGTTTGCCACAGGAAGAAACACCATGGCAAGAGGAACAGTAACAGGGCACATCAGGGGAA 495
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        254 TGTTTGCCACAGGAAGAAACACCATGGCAAGAGGAACAGTAACAGGGCACATCAGGGGAA 195

Qy        496 ACACGAAACATACGGCCATAAAACTCCTTATTAGAGAGTCTACAGATAAATCTACAGAGA 555
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        194 ACACGAAACATACGGCCATAAAACTCCTTATTAGAGAGTCTACAGATAAATCTACAGAGA 135

Qy        556 CAATTCCTCAAGTGGACTTGGCCATGATTGGTTGTAAGTTTATCATCTGAATTCTCCTTA 615
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        134 CAATTCCTCAAGTGGACTTGGCCATGATTGGTTGTAAGTTTATCATCTGAATTCTCCTTA 75

Qy        616 TTGTAGACAACAGAACAAAACAAAATATTGGTTTTTAAAAAATGAACAATTGTGCGGTAT 675
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         74 TTGTAGACAACAGAACAAAACAAAATATTGGTTTTTAAAAAATGAACAATTGTGCGGTAT 15
```

```
Qy        676 GCAAATGTAGCCAA 689
              ||||||||||||||
Db         14 GCAAATGTAGCCAA 1


RESULT 14
US-09-918-995-35876
; Sequence 35876, Application US/09918995
; Publication No. US20030073623A1
; GENERAL INFORMATION:
;  APPLICANT: Hyseq, Inc.
;  TITLE OF INVENTION: NOVEL NUCLEIC ACID SEQUENCES OBTAINED
;  TITLE OF INVENTION:  FROM VARIOUS cDNA LIBRARIES
;  FILE REFERENCE: 20411-756
;  CURRENT APPLICATION NUMBER: US/09/918,995
;  CURRENT FILING DATE:  2001-07-30
;  PRIOR APPLICATION NUMBER: US/09/235,076
;  PRIOR FILING DATE: 1999-01-20
;  NUMBER OF SEQ ID NOS: 38054
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 35876
;   LENGTH: 411
;   TYPE: DNA
;   ORGANISM: Homo sapiens
US-09-918-995-35876

  Query Match             17.6%;  Score 354.8;  DB 10;  Length 411;
  Best Local Similarity   99.4%;  Pred. No. 8.7e-73;
  Matches  356;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy        201 CCTCAGAAGCCATACTTCCCATTGCCTCCAGCTGTTGCACGGAGGTTTCACATCATATTT 260
              |||||  ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         54 CCTCACCAGCCATACTTCCCATTGCCTCCAGCTGTTGCACGGAGGTTTCACATCATATTT 113

Qy        261 CCAGAAGGCTCCTGGAAAGAGTGAATATGTGTCGCATCCAGAGAGCTGATGGGGATTGTG 320
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        114 CCAGAAGGCTCCTGGAAAGAGTGAATATGTGTCGCATCCAGAGAGCTGATGGGGATTGTG 173

Qy        321 ACTTGGCTGCTGTCATCCTTCATGTCAAGCGCAGAAGAATCTGTGTCAGCCCGCACAACC 380
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        174 ACTTGGCTGCTGTCATCCTTCATGTCAAGCGCAGAAGAATCTGTGTCAGCCCGCACAACC 233

Qy        381 ATACTGTTAAGCAGTGGATGAAAGTGCAAGCTGCCAAGAAAAATGGTAAAGGAAATGTTT 440
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        234 ATACTGTTAAGCAGTGGATGAAAGTGCAAGCTGCCAAGAAAAATGGTAAAGGAAATGTTT 293

Qy        441 GCCACAGGAAGAAACACCATGGCAAGAGGAACAGTAACAGGGCACATCAGGGGAAACACG 500
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        294 GCCACAGGAAGAAACACCATGGCAAGAGGAACAGTAACAGGGCACATCAGGGGAAACACG 353

Qy        501 AAACATACGGCCATAAAACTCCTTATTAGAGAGTCTACAGATAAATCTACAGAGACAA 558
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        354 AAACATACGGCCATAAAACTCCTTATTAGAGAGTCTACAGATAAATCTACAGAGACAA 411


RESULT 15
US-09-834-795A-11/c
; Sequence 11, Application US/09834795A
; Patent No. US20020076710A1
; GENERAL INFORMATION:
;  APPLICANT: Lawrence, Papsidero
;  APPLICANT:  Lyn, Dyster
;  APPLICANT:  Jana, Frustaci
;  TITLE OF INVENTION: Detection and Treatment of Breast Cancer
;  FILE REFERENCE: 3380/1I127-US3
;  CURRENT APPLICATION NUMBER: US/09/834,795A
;  CURRENT FILING DATE:  2001-04-12
;  PRIOR APPLICATION NUMBER: 09/146,580
;  PRIOR FILING DATE: 1998-09-03
;  PRIOR APPLICATION NUMBER: 60/071,899
;  PRIOR FILING DATE: 1998-01-20
;  PRIOR APPLICATION NUMBER: 60/092,155
;  PRIOR FILING DATE: 1998-07-09
;  NUMBER OF SEQ ID NOS: 35
;  SOFTWARE: PatentIn version 3.0
; SEQ ID NO 11
;   LENGTH: 311
;   TYPE: DNA
;   ORGANISM: Homo sapiens
;   FEATURE:
;   NAME/KEY: unsure
;   LOCATION: (101)..(101)
;   OTHER INFORMATION: n may be a or g or c or t/u
;   NAME/KEY: unsure
;   LOCATION: (162)..(162)
;   OTHER INFORMATION: n may be a or g or c or t/u
US-09-834-795A-11

  Query Match             15.0%;  Score 302;  DB 9;  Length 311;
  Best Local Similarity   99.3%;  Pred. No. 1.7e-60;
  Matches  302;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy        208 AGCCATACTTCCCATTGCCTCCAGCTGTTGCACGGAGGTTTCACATCATATTTCCAGAAG 267
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        311 AGCCATACTTCCCATTGCCTCCAGCTGTTGCACGGAGGTTTCACATCATATTTCCAGAAG 252

Qy        268 GCTCCTGGAAAGAGTGAATATGTGTCGCATCCAGAGAGCTGATGGGGATTGTGACTTGGC 327
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        251 GCTCCTGGAAAGAGTGAATATGTGTCGCATCCAGAGAGCTGATGGGGATTGTGACTTGGC 192

Qy        328 TGCTGTCATCCTTCATGTCAAGCGCAGAAGAATCTGTGTCAGCCCGCACAACCATACTGT 387
              |||||||||||||||||||||||||||||| ||||||||||||||||||||||||||||
Db        191 TGCTGTCATCCTTCATGTCAAGCGCAGAANAATCTGTGTCAGCCCGCACAACCATACTGT 132

Qy        388 TAAGCAGTGGATGAAAGTGCAAGCTGCCAAGAAAAAATGGTAAAGGAAATGTTTGCCACAG 447
              |||||||||||||||||||||||||||||| ||||||||||||||||||||||||||||
Db        131 TAAGCAGTGGATGAAAGTGCAAGCTGCCAANAAAAAATGGTAAAGGAAATGTTTGCCACAG 72

Qy        448 GAAGAAACACCATGGCAAGAGGAACAGTAACAGGGCACATCAGGGGAAACACGAAACATA 507
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         71 GAAGAAACACCATGGCAAGAGGAACAGTAACAGGGCACATCAGGGGAAACACGAAACATA 12

Qy        508 CGGC 511
              ||||
Db         11 CGGC 8


Search completed: July 10, 2004, 16:19:37
Job time : 905 secs
```